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# 1992 Data Bank for Red Oak Lumber

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## Abstract

The 1992 Data Bank for Red Oak Lumber is a collection of fully described FAS, Selects, No. 1 Common, and No. 2A Common boards (a total of 1,578 at present). The data bank has two unique features to aid in sample selection. The first feature is the double grading of FAS, No. 1 Common, and No. 2A Common boards to reflect the surface area in grading cuttings when grading with standard National Hardwood Lumber Association (NHLA) procedures and when using as many grading cuttings as possible under NHLA rules. The latter gives a more accurate predictor of the potential utility of the board. The second feature is the inclusion of quality levels for the No. 1 Common and No. 2A Common boards.

Written for researchers and industrial decision makers who may have only a limited knowledge of the NHLA grades, the data bank contains a limited description of factors affecting the grades. Included are a description of Realistic Grading System (ReGS), the computer program for grading lumber; some reasons why lumber users who buy kiln dried lumber may want to specify the Special Kiln Dried Rule; the effect of kiln-drying on soundness of knots; and the surprising finding that relatively few No. 1 Common and No. 2A Common boards contain any pith at all.

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## Introduction

For reliable results, computer simulations of lumber processing procedures require accurate lumber data banks. A major limitation of most rough mill yield studies is that the specific quality level of each board is not known. What is generally stated is that each board was graded by a certified grader. What is generally ignored is that the grader looks only for the minimum requirements of the grade in question.

The National Hardwood Lumber Association (NHLA) hardwood lumber grades, 1990, are based on averages and assume that all levels of quality within a grade are present in the long run. But, that may not be true for the boards in a data bank. If data bank users unknowingly compare the high end of one grade with the low end of another, then incorrect conclusions can result.

We have developed a 4/4 red oak lumber data bank according to NHLA rules from which sample boards can be drawn upon to meet the needs of the user. Emphasis is on No. 1 Common and No. 2A Common lumber. A smaller FAS and Selects sample also is included. Each board was graded with computer program Realistic Grading System (ReGS) (Gatchell et al. 1992), a specially enhanced version of Hardwood Lumber Training program (HaLT2) (Klinkhachorn et al. 1992a). As no computer program currently available can correctly grade all boards according to the NHLA rules, the grades were checked against *to-scale plots* of the actual boards and corrected when necessary.

For each FAS, No. 1 Common, and No. 2A Common board, the percent of the board-surface measure found in the grading cuttings and the number of cuttings used to obtain this percent are given. For the first time, a user can plot the boards and evaluate the grading procedure. A user also can choose boards that best represent the quality levels of the No. 1 Common and No. 2A Common raw material being processed or anticipated. The range of quality within No. 1 Common and No. 2A Common has been divided into three quality subclasses. The user can thus draw samples to represent any chosen quality level in these grades.

The data bank size is not fixed. Additional boards will be added from time to time. Some No. 3A Common and some short, higher grade boards currently are being processed.

## Procedure

### Sampling

It appears that the width of the hardwood lumber resource has become narrower in the Appalachian region. In 1973, researchers (Lucas and Catron 1973), sampling from two mills in West Virginia and two mills in Virginia, failed to find enough wide No. 2 Common red oak boards to match the sampling schedule that Dunmire and Englerth used for hard maple in 1967. We, in turn, failed to find enough No. 1 Common and No. 2A Common wide boards at two West Virginia and one western Pennsylvania mill to match the results of Lucas and Catron. As a result, our sampling approach was to obtain as many wide boards as possible to enable the data bank user to draw boards as desired from the data bank.

From the first mill, in southern West Virginia, we found most of the boards to be 7 inches and narrower. This mill sawed for grade and resawed center cants. The second mill, in northern West Virginia, was visited to collect 7-inch and wider boards. This mill kiln-dried and graded boards from at least six surrounding sawmills. Even though the mill's 4/4 red oak kiln run took 2 weeks to grade and stack, we could not find sufficient numbers of wide boards. Some additional narrower No. 1 and No. 2A Common and some FAS boards were purchased. The third mill, in western Pennsylvania, was similar to the first in that it sawed for grade and resawed center cants. Emphasis here was on 8-inch and wider boards. Again, failing to find sufficient numbers of wide pieces, that order also was filled with narrower No. 1 Common and No. 2A Common and with FAS boards.

Selects boards were not purchased at any mill. They were discovered during the grading phase of the data bank development. Most of the Selects came from the boards sold to us as No. 1 Common.

Because we found so few boards that were narrower than 4 inches or wider than 13 inches, we deleted these widths from consideration. It is interesting to note that Lucas and Catron had 22 percent of their No. 2 Common red oak volume in boards that were 13 inches and wider and had an average board width of over 9 inches. They, in turn, found only 38 percent of the volume of 13-inch and wider material that Dunmire and Englerth had recommended a few years earlier for hard maple. Because of our sampling, no attempt was made to define the length-width distributions of boards available in West Virginia and western Pennsylvania. Instead, the data bank should be viewed as a source for samples of specific sizes and qualities of lumber.

### Lumber Grading

The lumber from the first and third mills was purchased green and dried under a mild oak schedule in the Forest Service kiln at Princeton, West Virginia. The lumber from the second mill was purchased kiln dried. All dried lumber was skip-planed to facilitate the marking of defects but was still graded as rough lumber. NHLA's Special Kiln Dried Rule was used because it counts all the defects and treats each board as if it were air dried (1990).

Before the availability of computer grading programs, No. 1 Common and No. 2A Common boards were graded by a certified hardwood lumber inspector. The lumber from the first mill was graded "as is. " At a later date, the No. 1 Common and No. 2A Common lumber from the second and third mills was remanufactured by end trimming, using the recommendations of the same inspector. About 12 percent of all No. 1 Common and No. 2A Common boards were end

trimmed to a higher grade and the inspector observed that this was typical of his experience. The grading by the inspector was used as an initial sort.

Each board, including those purchased as FAS, was graded with the ReGS computer grading program. ReGS is a specially enhanced version of HaLT2 that enables boards with taper or slight crook (1/4 inch) to be graded. The HaLT2 program, designed to be used primarily as a training tool, is limited to grading only boards that are true rectangles.

To overcome problems inherent in the computer grading program, the computer-derived grade of each board was checked against a to-scale plot of the actual board, and grading by hand was done when errors were detected.

The grading program is not always successful in selecting the proper grading face or interpreting the first-foot rules for FAS and Selects. Further, the grading program must ignore all 1/4-inch and smaller defects and count all 1/2-inch defects on the back or better face. Ignoring the 1/4-inch and smaller defects on the sound-face side did not cause a single board to be misgraded of more than 1,000 boards and counting all 1/2-inch defects caused an incorrect down grade in less than 2 percent of all boards. These limitations and the workings of the program are explained in greater detail elsewhere (Gatchell et al. 1992; Klinkhachorn et al. 1992a; Klinkhachorn et al. 1992b.)

An additional computer grading problem resulted from the method used to encode large defects. The grading program was based on the assumption that each defect, no matter how long or large, would be enclosed in a single rectangle. In this data bank, we stepped the long and large defects, such as splits and wane, up and down in a series of smaller rectangles. This defect encoding procedure is expected to yield results similar to those achieved by describing the defects as polygons (Klinkhachorn et al. 1992b).

The program analyzes each defect segment and adds lengths and areas as appropriate. It cannot, however, recognize a series of rectangles as a single defect. It will accumulate length and areas of contiguous segments of the same defect, as required. But, it will not take the widest width of a wane segment times the total length of wane to determine wane area as NHLA rules require. Nor will it calculate the slope of long end splits. Grading by hand from to-scale plots is necessary in such cases.

The use of ReGS provided an excellent base for determining the correct grade. Our to-scale plots showed on which face the defects occurred and allowed an easy regrade where a corrected solution to grading was needed.

## Lumber Defects

Our data bank emphasizes naturally occurring defects (Table 1). In the NHLA rules (1990), paragraph 8 starts with the statement, “Lumber should be properly manufactured of good, average width and lengths.” Defects from felling, mechanical handling, or faulty machining must be accounted for in practice but are not included here.

Defect definition is not always objective. Huber and others (1990) discussed the lack of uniformity found in 46 U.S. wood products companies with respect to defining stain and decay and noted that there were no industrywide standards. Decisions on defects such as these seemed based more on visibility of the defect in the end product rather than on size or color limitations.

Stain is defined by NHLA as “...the initial evidences of decay.” It is allowed in boards if it will surface out. And, it is allowed on the sound face of a cutting. Light stain that would not be objectionable under a clear finish was ignored. Sticker stain was not present in our samples and would have been ignored anyway because it is the result of poor drying practices and, therefore, would not meet our requirement for proper manufacture.

To minimize subjectivity, we eliminated stain as a separate defect. Any stain that would be objectionable under a clear finish was judged to be heavy stain and classified as incipient decay. But, rot or decay is not allowed on the sound face. This means that heavy stain is not allowed on the sound face of our grading cuttings. However, the reader may wish to allow it and may do so easily. Any incipient decay that ran into decay or rot was encoded as decay or rot. Very little incipient decay other than heavy stain was found isolated from decay. Thus, the user would introduce very little error by reclassifying defect 18 as an allowable defect and regrading those boards in which it occurs.

**Table 1.—Board defects and code numbers**

| Defect | Code No. |
|---|---|
| Void[a] | 2 |
| Pith | 3 |
| Decay | 4 |
| Shake | 5 |
| Pith related tear or split | 6 |
| Wane and scant wood thickness, or both, owing to bark | 8 |
| Bark pocket | 10 |
| Unsound knot | 12 |
| Sound knot | 15 |
| Incipient decay and objectional stain | 18 |
| Bud trace with bark | 20 |
| Split | 24 |
| Worm holes: | |
| Grub and other holes 1/4” and over | 11 |
| Shot worm hole; greater than 1/16”, less than 1/4” | 111 |
| Pin worm hole; 1/16“ or less | 211 |

[a]The space between the edge of the board and the smallest rectangle enclosing the board; caused by crook, taper, or differential shrinkage.

Checks and splits also are a problem. Both are defined as lengthwise separations of wood. Checks that will surface out (ordinary seasoning checks) are allowed in boards. The lumber we dried was purchased straight from the saw and dried under a mild schedule. Very few boards had any visible checks of any kind and most of those boards were below grade. To avoid confusion, we defined as a split any check that would not surface out.

Boards not containing pith but containing the juvenile wood that surrounds the pith often tear or split within this juvenile wood during drying. These tears or splits were identified separately to provide additional information on the location of the board within the log. All split-type defects were treated as shake and not allowed on the sound face of clear-face cuttings.

### Entering Data

A detailed description of the data encoding procedures is found in Anderson et al. (In press). All defects were identified by number (Table 1) on both faces of the 4/4 kiln-dried and skip-planed red oak boards. The lower left and upper right corners of the smallest rectangle (to a minimum of 1/4 inch by 1/4 inch) containing each defect were marked. Worm holes smaller than 1/4 inch were identified by numerical code. Large, irregularly shaped, or diagonal defects were represented by a series of smaller, contiguous rectangles. The poorer or grading face was estimated: This estimate was confirmed or corrected during computer grading.

Data were entered with a Numonics Corporation 1224 Graphics Calculator.[1] A movable wand is positioned first at the lower left and then the upper right corners of the defect. These locations are translated into Y-X coordinates in 1/4-inch units. Historically, the Y coordinate has been recorded first and this data bank continues this procedure for compatibility with early computer programs. However, a version in which the X-coordinate is given first is available upon request.

### Data Bank Format

The data format is explained in Figure 1. The headline contains the NHLA minimum grade, the board number, the NHLA maximum grade, and the number of defects. "Minimum" and "maximum" apply to FAS, No. 1 Common, and No. 2A Common. The minimum is the grade determined with computer program ReGS and is the first solution found that meets the requirements of the grade. The maximum grade results from using as many grading cuttings as possible under the NHLA rules and was calculated by hand from to-scale plots of each board. The headline concludes with the total number of defects.

[1]The use of trade, firm, or corporation names in this publication is for the information and convenience of the reader. Such use does not constitute an official endorsement or approval by the U.S. Department of Agriculture or the Forest Service of any product or service to the exclusion of others that maybe suitable.

An "R" at the end of the maximum grade denotes No. 1 Common and No. 2A Common lumber from the second and third mills. Recall that about 12 percent of the original sample from these mills was upgraded by end trimming. The 2A "R" boards are the boards remaining. The No. 1 Common "R" boards are the No. 1 Common boards that were not remanufactured and those No. 1 Common boards resulting from the end trimming of No. 2A Common boards. While yield comparisons between "R" subsamples and log run No. 1 Common and No. 2A Common may produce useful information, it should be cautioned that an "R" does not mean that a specific board was remanufactured.

For No. 1 Common and No. 2A Common, the grade designation contains an M, Z, or P that are quality indices of the amount of board surface measure contained in the grading cuttings. These indices allow broad quality sorts to be made easily. M (minus) is the low end of the grade quality range and is 67 through 71 percent for No. 1 Common and 50 through 54 percent for No. 2A Common. Z (zero or midpoint) is the middle of the grade quality and is 72 through 78 percent for No. 1 Common and 55 through 61 percent for No. 2A Common. P (plus) is the high end of the quality range and is 79 percent and greater for No. 1 Common and 62 percent and greater for No. 2A Common. It should be recalled that the lumber grades specify only the minimum percentage required for each grade. There is no specific upper limit.

The second line in Figure 1 provides the measured board width in 1/4-inch units (''24" in the example), which is used to determine the board-surface measure. The percentage of the board-surface measure found in the grading cuttings and the number of cuttings used to determine NHLA minimum (first pair, 73-2) and maximum (second pair, 86-4) values also are provided for FAS, No. 1 Common, and No. 2A Common lumber.

Because of the way the Selects grade is specified, it was not analyzed to give the surface area in the grading cuttings. instead, we report the rule used to determine the Selects grade (sound back or No. 1 Common back). Selects is always determined from the better face (rather than the poorer face as in FAS and the Common grades). Sound-back Selects have FAS cuttings on the better face or have 97 percent of the surface area of the better face in two full-width, sound-back cuttings of any length.

When Selects is graded with an FAS face and a No. 1 Common back, the locations of defects on one face relative to the other are ignored. This means that the back of the Selects grading cuttings may contain rot, wane, or other disqualifying defects used with the sound-back rules. So, the grading cuttings in Selects may have little utility for the user who needs clear-face material.

Even though ReGS looks first for sound-back cuttings, only 23 percent of our 209 Selects boards are sound-back Selects. The remaining 77 percent are No. 1 Common-back Selects. Most of the Selects boards came from the No. 1 Common lumber purchases.

GRADE 1CZ[a] BOARD NUMBER 544 1CPR[b] TOTAL NUMBER OF DEFECTS 17

MEASURED BOARD WIDTH 24[c] GRADING: 73-2 [d] 86-4 [e]

1/4" units

| | [f] | [g] | [h] | [i] |
|---|---|---|---|---|
| 0- 0 | 25-769 | | | |
| 24-176 | 25-320 | 1 | 2 | |
| 23-220 | 24-256 | 1 | 8 | |
| 22-256 | 24-287 | 1 | 8 | |
| 23-287 | 24-320 | 1 | 8 | |
| 0-426 | 5-477 | 1 | 8 | |
| 0-477 | 4-493 | 1 | 8 | |
| 0-493 | 1-540 | 1 | 2 | |
| 1-493 | 3-511 | 1 | 8 | |
| 1-511 | 2-531 | 1 | 8 | |
| 24-359 | 25-442 | 1 | 8 | |
| 0-539 | 1-597 | 1 | 2 | |
| 24-681 | 25-769 | 1 | 2 | |
| 12-727 | 14-729 | 1 | 12 | |
| 20- 0 | 21- 11 | 2 | 24 | |
| 11-161 | 12-162 | 2 | 12 | |
| 1-472 | 3-485 | 2 | 24 | |
| 3-485 | 4-496 | 2 | 24 | |

[a] NHLA Minimum grade

[b] NHLA Maximum grade--"R" indicates a board taken from 2nd or 3rd mill

[c] 1/4-inch units

[d] Percent of board surface measure and number of grading cuttings-minimum grade

[e] Percent of board surface measure and number of grading cuttings-maximum grade

[f] Lower left (left column) and upper right corner (right column) coordinates of rectangle enclosing the board (1/4-inch units); Y coordinate is first in each column set

[g] Defect lower left and upper right corner coordinates; Y coordinate is first

[h] Board face: 1 = grading face; 2= back face

[i] Defect code (Table 1)

Note: Grades are represented as follows:

OFS=FAS
OSL=Selects
1C= No. 1 Common
2C=No. 2A Common
P,Z,M (Grading-cuttings surface area):

| | No. 1 Common (%) | No. 2A common (%) |
|---|---|---|
| M | 67-71 | 50-54 |
| Z | 72-78 | 55-61 |
| P | 79 and above | 62 and above |

Figure 1.—Data bank format.

The third line in Figure 1 contains the Y-X coordinates (Y-coordinate first) in 1/4-inch units of the lower left and upper right corners of the smallest rectangle containing the board. For rectangular boards, the measured width given in the second line, and the upper Y right corner values will be the same.

Each succeeding line describes a specific defector defect segment. Given are the Y-X coordinates of the lower left and upper right corners of the defect, the face upon which it is found (face one usually. is the grading face and face two the back "or better face for FAS and the-Common grades), and the defect code. Data bank users will want to make certain that their data conversion programs properly handle the void defect (code index 2). Void occurs outside the board and will appear on both faces between the board and the enclosing rectangles. Void is only indexed on one face in the data bank since the void coordinates would be the same on the other face. This must be accounted for in grading and processing computer programs.

## Data Bank Overview

The widths and lengths for all boards in each grade are summarized in Figures 2 through 5 and Tables 2 through 5 and are given in detail in the appendix. In the appendix, boards are listed by increasing widths and, for boards of the same width, increasing lengths. All measurements are to the nearest 1/4 inch.

The appendix provides lookup tables to enable the user to easily subsample boards. In addition to the NHLA minimum and maximum grades, the surface measure of each board is given. For successive boards that are halfway between the same consecutive feet of surface measure, NHLA procedures call for alternately rounding up and down. We always rounded down to obtain the highest grade possible. We felt that conservative research results would be obtained from boards so graded. For each board with a surface measure halfway between consecutive whole feet, the grade when the larger surface measure is used is also given.

The data bank contains 10,712 board feet in 1,578 boards separated into grades as follows:

| *Grade* | *Number of boards* | *Board feet* |
|---|---|---|
| FAS | 198 | 1804 |
| Selects | 209 | 1571 |
| No. 1 Common | 591 | 3729 |
| No. 2A Common | 580 | 3635 |

### Width

The reader is cautioned that the width groupings used are not typical of those usually found in research papers. For example, a 5-inch width grouping usually would contain all widths from 4.51 inches through 5.5 inches. However, NHLA rules deal in minimums. With exceptions, the minimum widths for air-dried lumber are: 6 inches for FAS, 4 inches for Selects, and 3 inches for No. 1 Common and No. 2A Common. To avoid confusion, we chose to base our width sorts on whole inch minimums. Therefore, our data banks start at 6 inches for FAS and the 6-inch class contains all boards up to 7 inches, the 7-inch class all boards up to 8 inches, and so on.

The reader who wishes to work with scant widths must examine the appropriate widths in the lower grades and regrade these, perhaps with the use of ReGS (Gatchell et al. 1992.) and to-scale plots. Ten percent of all boards in any sample can be 1/4-inch scant. When kiln dried, all boards can be an additional 1/4-inch scant.

The data supplied in the appendix will be useful in making an initial selection for scant width regrading. For example, if a sample of kiln-dried boards is to be developed, all 5.75-inch Selects could be reviewed. And, some of the better 5.5-inch boards might grade FAS. Up to 10 percent of a kiln-dried FAS sample may be 5.5 inches wide, according to the NHLA rules.

The median and average widths were 8.75 inches for FAS and 7.75 inches for Selects. The data were slightly skewed to the left and there was no clear mode (Figures 2 and 3). The No. 1 Common and No. 2A Common data were heavily skewed to the left (Figures 4 and 5). With average widths of 7.5 and 7.0 inches, respectively, and median widths 1/2 inch less at 7.0 inches for No. 1 Common and 6.5 inches for No. 2A Common, the mode for each was in the 5-inch-width class. The abundance of 5-inch-wide boards in these two grades probably is a result of the practice of resawing center cants.

It should be noted that the average widths of 7.5 and 7.0 inches for No. 1 Common and No. 2A Common are wider than the average of those available on the open market. Recall that the last two mills were visited to complete sampling for 7-inch and then 8-inch and wider boards, and that we took all the wider No. 1 Common and No. 2A Common boards that we could find. Boards with more than 1/4 inch of crook or 1/2 inch of taper were excluded from these data banks. Crooked and tapered boards were found in all width classes. We could not get as many wide boards as originally planned. On the other hand, a great many boards narrower than 7 inches were not even considered.

### Length

Lengths shown in the appendix are measured to the nearest 1/4 inch. It is important to understand that all considerations of length under NHLA rules are in terms of standard lengths (4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16 feet). To obtain the standard length of a board, ignore any length (in inches) over the standard length.

In the standard grades, odd lengths of 5, 7, 9, 11, 13, and 15 feet are allowed up through 50 percent of the total number of boards. This rule implies that odd lengths are

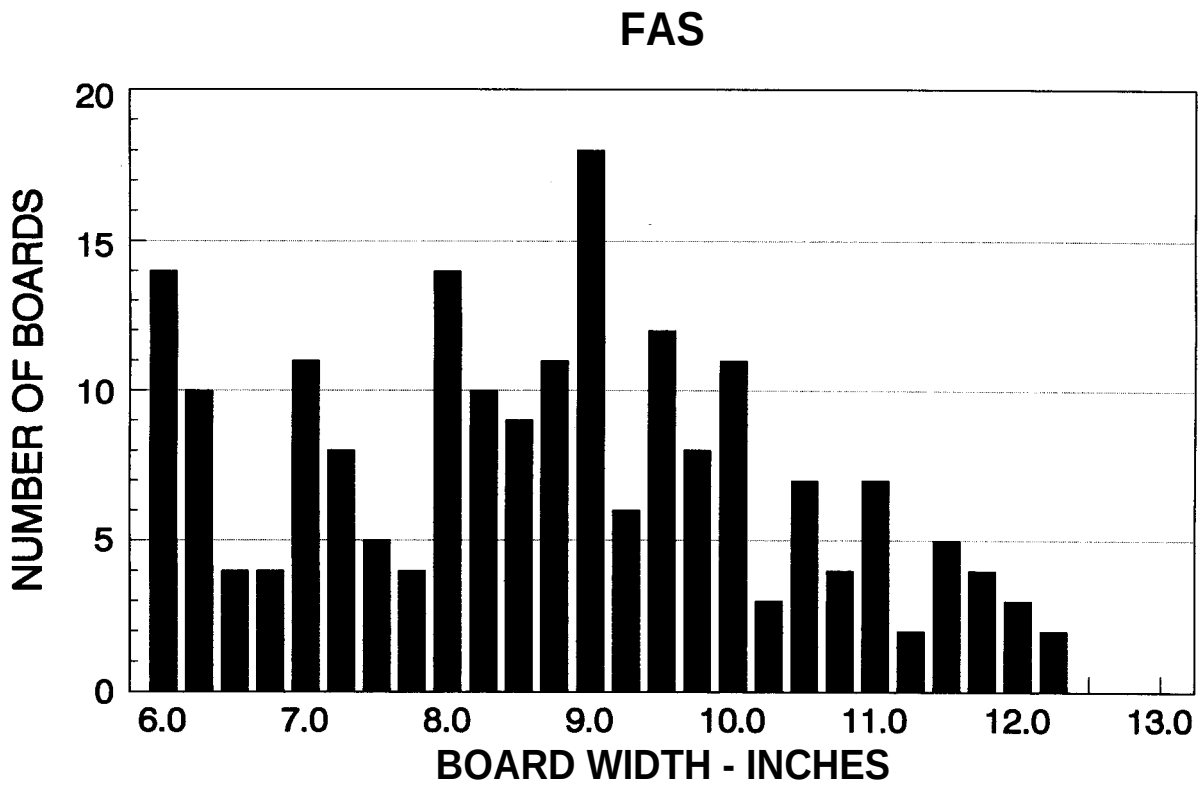


Figure 2.—FAS board-width frequency distributions.

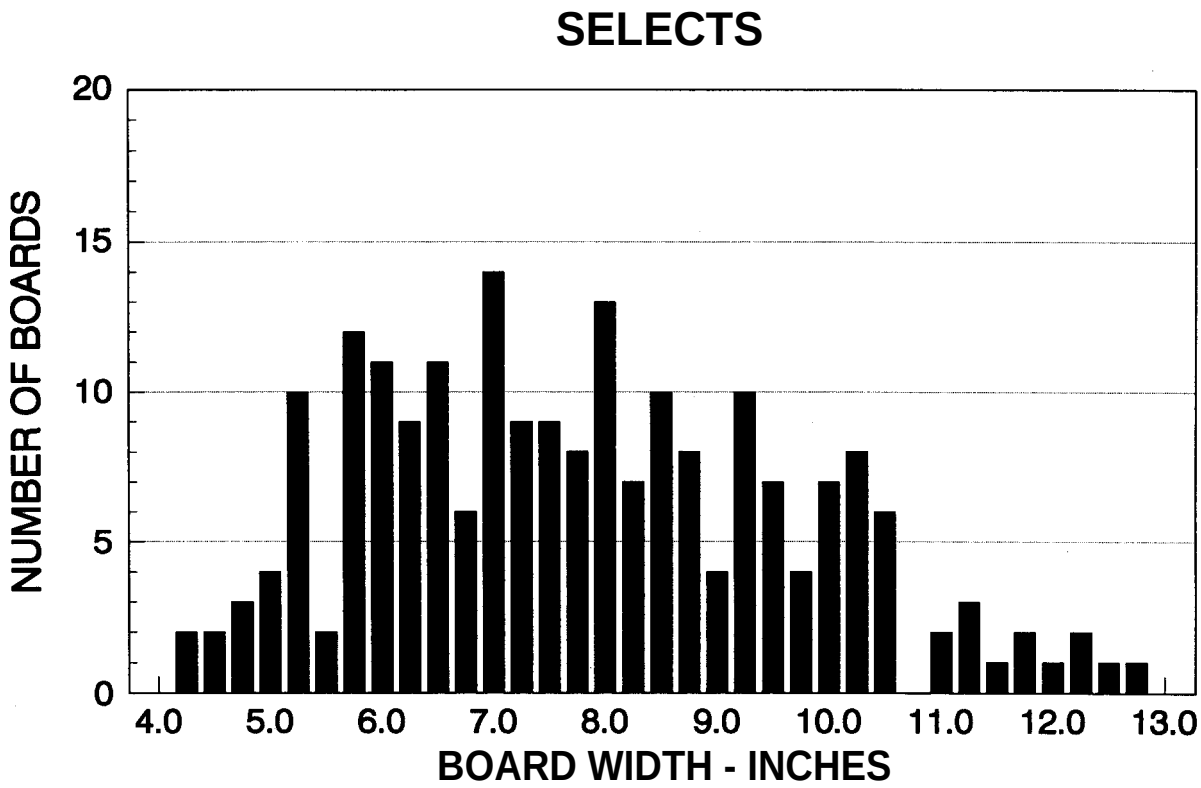


Figure 3.—Selects board-width frequency distributions.

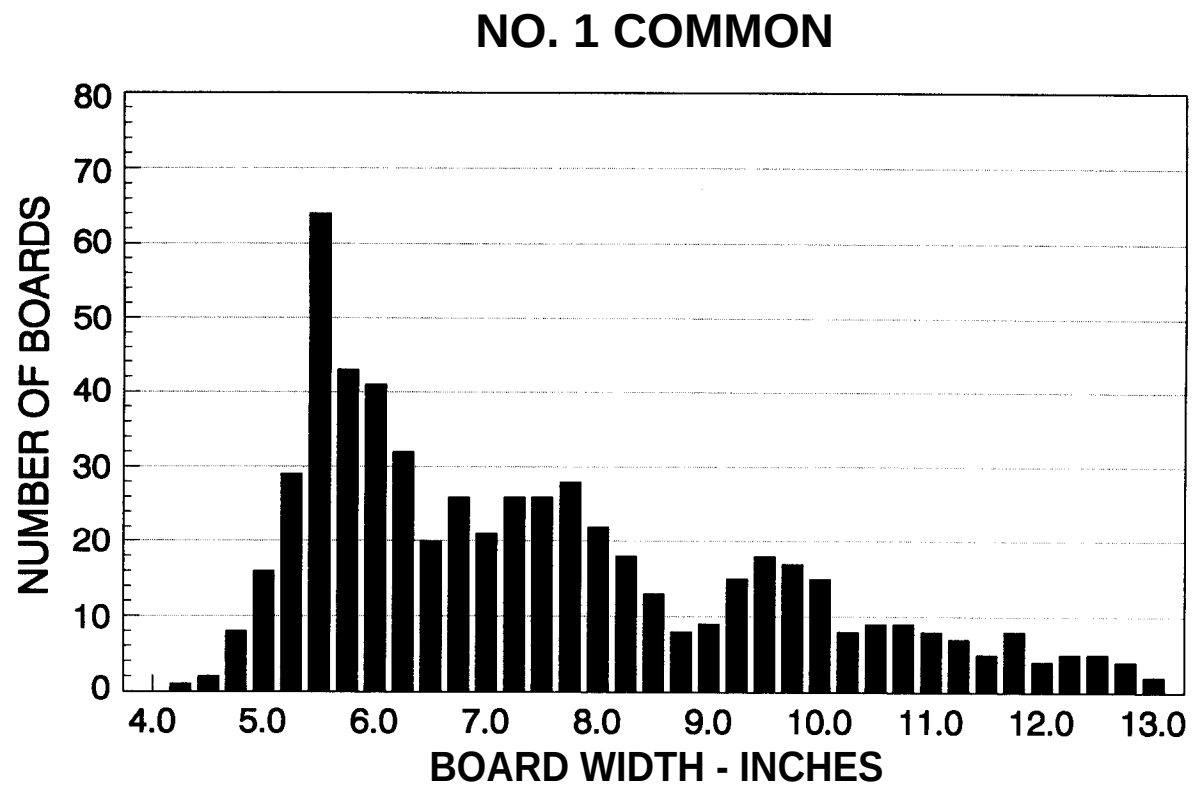


Figure 4.—No. 1 Common board-width frequency distributions,

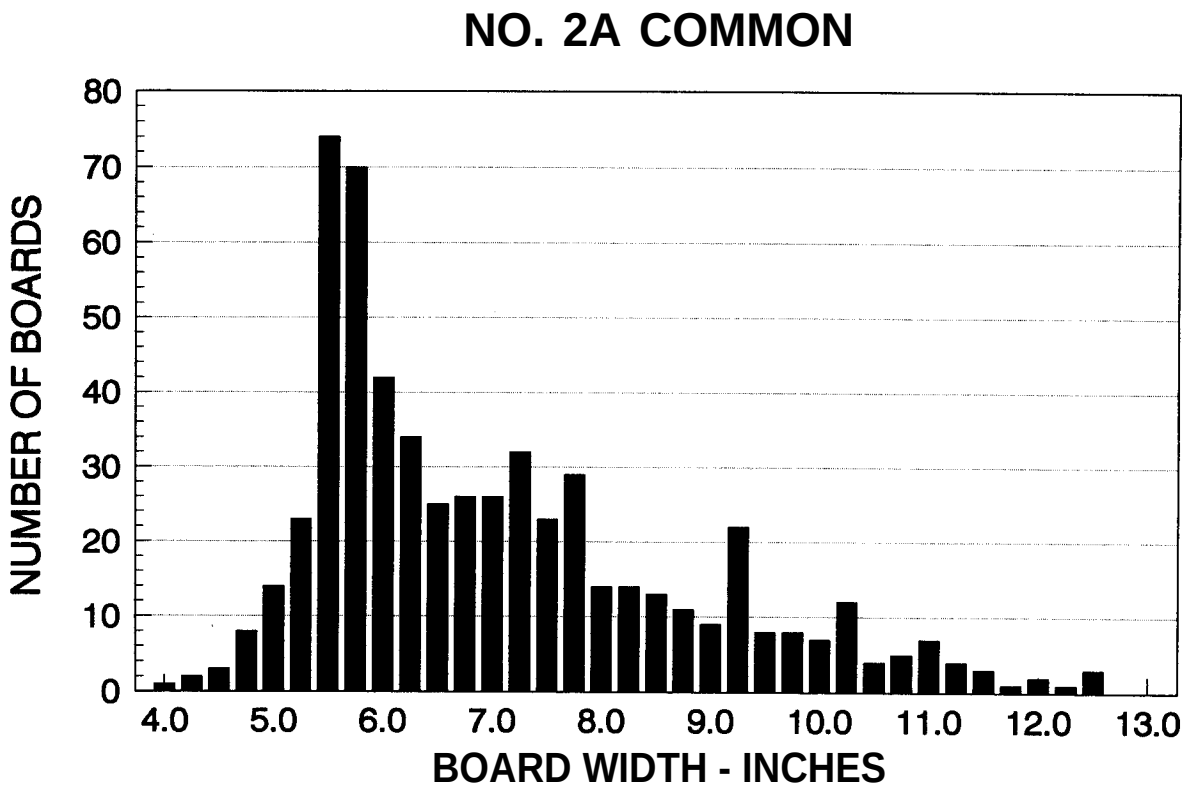


Figure 5.—No. 2A Common board-width frequency distributions.

**Table 2.—FAS size distributions**

| Standard length (ft) | Width class (in) 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | No. of boards | Board feet |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | – | – | – | – | – | – | – | – | – | – | – | – |
| 5 | – | – | – | – | – | – | – | – | – | – | – | – |
| 6 | – | – | – | – | – | – | – | – | – | – | – | – |
| 7 | – | – | – | – | – | – | – | – | – | – | – | – |
| 8 | – | – | 4 | 2 | 3 | 2 | – | – | – | – | 11 | 54 |
| 9 | – | – | 2 | 1 | 1 | 4 | 1 | – | – | – | 9 | 56 |
| 10 | – | – | 2 | 5 | 10 | 9 | 4 | 4 | – | – | 34 | 250 |
| 11 | – | – | – | 1 | 1 | 1 | – | – | – | – | 3 | 24 |
| 12 | – | – | 4 | 6 | 13 | 15 | 6 | 2 | 1 | – | 47 | 407 |
| 13 | – | – | – | – | 1 | 1 | – | 2 | – | – | 4 | 44 |
| 14 | – | – | 8 | 8 | 4 | 8 | 8 | 5 | 1 | – | 42 | 425 |
| 15 | – | – | – | – | – | – | – | – | – | – | – | – |
| 16 | – | – | 12 | 6 | 11 | 5 | 6 | 5 | 3 | – | 46 | 544 |
| Total | | | 32 | 29 | 44 | 45 | 25 | 18 | 5 | | 198 | 1,804 |

**Table 3.—Selects size distributions**

| Standard length (ft) | Width class (in) 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | No. of boards | Board feet |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | – | – | – | – | – | – | – | – | – | – | – | – |
| 5 | – | – | – | – | – | – | – | – | – | – | – | – |
| 6 | 1 | 6 | 8 | 3 | 2 | – | – | – | – | – | 20 | 63 |
| 7 | – | 3 | – | – | – | – | – | – | – | – | 3 | 9 |
| 8 | – | 5 | – | 5 | 2 | 1 | 0 | 1 | 1 | – | 15 | 74 |
| 9 | – | 1 | 2 | 1 | 3 | 1 | 1 | – | – | – | 9 | 51 |
| 10 | 1 | 5 | 5 | 9 | 6 | 3 | 5 | 3 | 2 | – | 39 | 263 |
| 11 | 1 | – | – | 1 | 1 | 1 | – | 1 | – | – | 5 | 37 |
| 12 | 3 | 2 | 10 | 11 | 11 | 5 | 4 | 1 | 1 | – | 48 | 367 |
| 13 | – | – | – | – | – | 1 | – | – | – | – | 1 | 10 |
| 14 | – | 3 | 5 | 5 | 8 | 7 | 6 | 2 | 1 | – | 37 | 364 |
| 15 | – | – | 1 | – | – | – | – | – | – | – | 1 | 7 |
| 16 | 1 | 3 | 6 | 5 | 5 | 6 | 5 | – | – | – | 31 | 326 |
| Total | 7 | 28 | 37 | 40 | 38 | 25 | 21 | 8 | 5 | | 209 | 1,571 |

**Table 4.—No. 1 Common size distributions**

| Standard length (ft) | Width class (in) | | | | | | | | | | No. of boards | Board feet |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | | |
| 4 | – | 2 | 4 | 5 | 2 | 2 | 3 | 1 | 1 | – | 20 | 54 |
| 5 | – | 4 | 3 | 5 | 5 | – | – | – | – | – | 17 | 49 |
| 6 | 2 | 18 | 18 | 10 | 6 | 3 | 3 | 2 | – | – | 62 | 214 |
| 7 | 2 | 13 | 6 | – | 1 | 1 | 2 | 1 | 1 | – | 27 | 103 |
| 8 | 3 | 11 | 16 | 19 | 19 | 10 | 10 | 2 | 3 | – | 93 | 478 |
| 9 | – | – | 4 | 10 | 3 | – | – | 1 | 1 | 1 | 20 | 120 |
| 10 | 1 | 30 | 24 | 19 | 7 | 11 | 11 | 9 | 2 | – | 114 | 715 |
| 11 | – | 6 | 4 | 0 | 2 | – | – | – | – | – | 12 | 68 |
| 12 | 2 | 32 | 21 | 14 | 6 | 11 | 5 | 2 | 7 | 1 | 101 | 732 |
| 13 | 1 | 1 | – | 2 | – | – | – | – | – | – | 4 | 27 |
| 14 | – | 19 | 9 | 9 | 2 | 15 | 4 | 5 | 3 | – | 66 | 610 |
| 15 | – | – | – | – | 1 | – | – | – | – | – | 1 | 10 |
| 16 | – | 16 | 10 | 8 | 7 | 6 | 2 | 5 | – | – | 54 | 539 |
| Total | 11 | 152 | 119 | 101 | 61 | 59 | 40 | 28 | 18 | 2 | 591 | 3,719 |

**Table 5.—No. 2A Common size distributions**

| Standard length (ft) | Width class (in) | | | | | | | | | | No. of boards | Board feet |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | | |
| 4 | – | 1 | 1 | 2 | – | 1 | – | – | 1 | – | 6 | 17 |
| 5 | 1 | 1 | 2 | – | – | – | – | – | – | – | 4 | 10 |
| 6 | – | 6 | 6 | 5 | 3 | 1 | 2 | – | – | – | 23 | 80 |
| 7 | 1 | 2 | 2 | 2 | 2 | – | – | 1 | – | – | 10 | 41 |
| 8 | 2 | 30 | 30 | 21 | 13 | 14 | 18 | 3 | 3 | – | 134 | 679 |
| 9 | – | 3 | 5 | 5 | – | – | – | – | – | – | 13 | 63 |
| 10 | 4 | 41 | 31 | 34 | 12 | 10 | 2 | 1 | – | – | 135 | 768 |
| 11 | – | 3 | 1 | 1 | – | – | – | – | – | – | 5 | 28 |
| 12 | – | 31 | 28 | 23 | 9 | 6 | 1 | 5 | 1 | – | 104 | 718 |
| 13 | – | 5 | 2 | 1 | – | – | – | – | – | – | 8 | 52 |
| 14 | 2 | 39 | 12 | 10 | 5 | 9 | 3 | 4 | 1 | – | 85 | 681 |
| 15 | 1 | 1 | – | 1 | – | 1 | – | – | – | – | 4 | 35 |
| 16 | 3 | 18 | 7 | 5 | 6 | 5 | 2 | – | 1 | – | 49 | 452 |
| Total | 14 | 181 | 127 | 110 | 52 | 47 | 28 | 14 | 7 | | 580 | 3,624 |

allowed but not preferred. Very few boards were found in the 13- and 15-foot length classes (Tables 2, 3, 4, and 5). Most of these were mismanufactured 14- and 16-footers.

That is, they fell short by 1/2 inch or more of being a standard length and had to be rounded down. While greater numbers of boards can be found in the shorter odd length groups in No. 1 Common and No. 2A Common, the overall manufacturing preference for even lengths seems clear.

Boards initially encoded as 1/4 inch less than a standard foot had 1/4 inch of wood arbitrarily added to the length to prevent “rounding” errors connected with the encoding equipment from affecting the results. The digitizer recorded only in 1/4-inch increments. Therefore, 11.999 inches was recorded as 11.75 inches.

## The Effects of Drying on Defect Evaluation

Kiln-dried lumber is graded by either the Standard Kiln Dried Rule or the Special Kiln Dried Rule. We used the Special Kiln Dried Rule. The Standard Rule states that checks and warp shall not be considered defects nor shall any distinction be made between checks and warp that may have been present before and after kiln drying. The Special Kiln Dried Rule states that each kiln-dried board will be graded as if it were air dried and that it will be graded with all defects counted (except for the allowances for scant width and thickness that are not part of this discussion).

The Standard Kiln Dried Rule may not be the best rule for those who buy kiln-dried lumber. Lumber may be graded higher than it would be if all of the defects are considered. The buyer may pay for poor drying practices such as too severe drying schedules, poor sticker alignment and spacing, and severe checking from poor air drying of the green lumber. Also, this rule ignores any crook or side bend that results from growth stresses in small-diameter hardwoods. Thus, under the standard rule, a crooked board that is severely checked, with cup and end splits, would be graded as a straight board without these defects. Yields from such boards may be lower than the grade would suggest.

However, lumber producers who sell green or air-dried lumber need not fear that kiln drying will so adversely affect the soundness of knots that their lumber will be down graded. NHLA defines a sound knot as one that is solid across its face, as hard as the surrounding wood, and shows no indication of decay. A sound knot must be intergrown with the stem wood around it. Knots that contain bark around all or part of their perimeter are considered all or partially encased and are judged unsound. And, knots that are cracked during drying are unsound.

The effect of drying on red oak knot soundness is trivial. Most knots are unsound when green (Table 6). Those that are sound when green and made unsound by drying must be uniquely located before grades are negatively affected. First, the knots must be on the sound-face side of the grading cutting and not come through the board. This happens very infrequently. Second, their position on the sound face must be such that the grading cutting area is reduced below minimums without allowing another cutting to be used. We found only one of more than 1,700 knots that did so in a 656-board sample containing FAS, Selects, No. 1 Common, and No. 2A Common.

If we assume that boards in the lower grades generally come from the center of the log, then the condition of the knots follows an expected pattern in oak, Knots near the log center are expected to be intergrown and, therefore, have a good chance of being sound. No. 2A Common had more sound knots per board than the higher grades (Table 6). As we proceed outward, branches may die. Dead branches, if they do not fall off, become encased in wood and are, therefore, unsound. Decay can occur. Almost all of the knots in the FAS and Selects boards were encased and many contained decay.

In summary, the Special Kiln Dried Rule was used because the resulting grades give the best prediction of yield in furniture and cabinet plants. The Special Rule accounts for all defects found in a board. Where good kiln drying practices are used, the effect on soundness of knots can be ignored and the effects on other degrade can be considered unimportant.

**Table 6.—Estimated air-dried soundness of kiln-dried unsound knots**

| | | Number and condition of knots | | |
|---|---|---|---|---|
| | | Kiln-dried | Air-dried | |
| Lumber grade | No. of boards | No. of unsound knots[a] | No. of unsound knots[a] | Estimated No. of sound or partly sound knots[a] |
| FAS and Selects | 391 | 315 | 298 | 17 |
| No. 1 Common | 98 | 452 | 361 | 91 |
| No. 2A Common | 167 | 957 | 755 | 202 |
| Total | 656 | 1,724 | 1,414 | 310 |

[a]Numbers are totals for both faces. Knots often go through aboard at an angle and sometimes appear on the other side as another defect. For example, a sound knot may appear on the other face as an unsound knot or bark pocket. Each face of every board was examined independently. When an unsound knot on the sound-face side was estimated to be sound or partly sound when air dried, the effect of this knot on the final grade was determined. Estimates of air-dried soundness were based on examining the severity and apparent freshness of cracks in intergrown knots free of decay.

## Quality Levels Within Grades

NHLA rules do not attempt to subdivide grades into quality levels. They assume that the entire range of quality exists within each grade and that it is necessary only to establish the minimum quality for each grade. Therefore, our efforts to evaluate quality levels within grades go beyond the intent of the grading rules. However, users of data bank boards containing only the broad grade classifications cannot be assured that the full range of grade quality is present in their subsamples.

Should we expect as many boards in the high end of the grade as in the low end if we compare only the surface areas of the grading cuttings used to grade the boards according to NH LA procedures? Probably not. Graders are trained to look for the highest grade possible and to stop grading when the minimum requirements of the highest grade possible are met or exceeded. A different choice of grading cuttings or use of more of the allowable number of grading-cuttings might well increase the grading cuttings surface area. But, the question of how well a board qualifies for its grade is not asked in practice.

When the surface area of the grading cuttings equals or exceeds the amount required for the next higher grade, there must be a reason for not placing the board in that higher grade. There could be many reasons. For FAS, there are limitations on the size of knots, the length and slope of end splits, the amount of clear-face material in the first-foot of each end, and the length and width of wane, for example. There are pith limits for FAS, Selects, and No. 1 Common. Even if none of these limitations applies, obtaining the amount of grading surface area required by the grade is not always enough to place the board in that grade. The surface area must be in cuttings of the correct size and number.

What should the quality distribution be if we used as many grading cuttings as possible? It might be expected that the use of the maximum grading surface area would result in a normal distribution (as many high quality as low quality boards with most being of middle quality). For our data banks, this expectation is wrong. The standard procedure of using the minimum number of cuttings to establish the grade produced more low quality boards than high and, relatively, more low quality No. 2A Common than No. 1 Common (Table 7). And the higher quality boards were the smaller boards (fewer board feet per board).

When the maximum allowable number of cuttings was used, there was a dramatic increase in high quality No. 1 Common and No. 2A Common with the most dramatic increase in No. 2A Common. There were more high quality No. 2A Common boards than middle and low quality boards combined (356 to 224). The high quality No. 2A Common boards were, on average, bigger boards. The bigger No. 2A Common boards often contain areas that are not included when standard grading methods are used but that are large enough to be included when all of the allowable number of cuttings are used.

Only 8 percent (17 of 203) of the FAS boards had higher maximum grading surface areas. This was not surprising. The FAS grade requires long cuttings, and it is not at all likely that an extra cutting will be found beyond those used to calculate the grade. The small increases in grading surface areas (see Table 10) resulted from dividing a wide cutting into two narrow cuttings and extending the length of one beyond a stopper defect.

**Table 7.—Quality distribution within grade**

| NHLA grade | Low (M)[a] | | Middle (Z)[b] | | High (P)[c] | | Total | |
|---|---|---|---|---|---|---|---|---|
| | No. of bds | Bd ft per bd | No. of bds | Bd Ft per bd | No. of bds | Bd Ft per bd | No. of bds | Bd Ft per bd |
| 1C Minimum[d] | 260 | 7.1 | 207 | 8.2 | 124 | 4.6 | 591 | 6.3 |
| 1C Maximum[e] | 111 | 6.3 | 176 | 6.9 | 304 | 5.9 | 591 | 6.3 |
| 2AC Minimum[d] | 275 | 6.8 | 213 | 6.1 | 92 | 4.8 | 580 | 6.3 |
| 2AC Maximum[e] | 73 | 5.9 | 151 | 6.5 | 356 | 6.2 | 580 | 6.3 |

[a]Low (M) - 1C = 67-71% clear-face-cuttings surface area
- 2C = 50-54% clear-face-cuttings surface area

[b]Middle (Z) - 1C = 72-78% clear-face-cuttings surface area
- 2C = 55-61% clear-face-cuttings surface area

[c]High(P) - 1C = 79% + above clear-face-cuttings surface area
- 2C = 62% + above clear-face-cuttings surface area

[d]Minimum - Based on minimum number of cuttings requried to achieve grade. Determined with computer program ReGS.

[e]Maximum - Based on number of cuttings up to and including maximum number allowed. Determined by hand from to-scale plots.

**Table 8.—Number of boards containing pith**

| Grade | Aggregated length of pith (ft) | | | | | | | No. of boards | |
|---|---|---|---|---|---|---|---|---|---|
| | <1 | 1 | 2 | 3 | 4 | 5 | ≥6 | Total with pith | Total in sample |
| FAS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 196 |
| Selects | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 209 |
| No. 1 Common | 31 | 13 | 7 | 0 | 2 | 0 | 0 | 54 | 591 |
| No. 2A Common | 53 | 26 | 10 | 7 | 7 | 2 | 3 | 106 | 560 |

## Pith and Pith-Related Splits

Of all the defects, pith maybe the most difficult to work with. It is not allowed on the sound-back of any cutting (nor are rot, shake, or wane). If it is known to be within the board, it must be counted as if on the surface. It sometimes is difficult to tell whether the pith is in or out of the board. Wood immediately adjacent to the pith often will tear or split on drying. These tears or splits rarely go through the board but usually are very deep and undesirable.

The numbers of boards containing pith are given in Table 6. The distribution of boards conforms to the view that the lowest grades generally will come from the center of the log. None of the FAS boards contained pith. For No. 1 Common, each board can contain an amount of pith equal to 1/2 the length. Only 54 of 591 No. 1 Common boards contained any pith. Most of these (44) had less than 2 feet of pith in the aggregate.

Pith is allowed in unlimited amounts in No. 2A Common. The only requirement is that pith cannot occur in the grading cuttings. Yet, only 106 of 560 contained any pith. And most of these (79) had less than 2 feet of pith in the aggregate.

## The Effect of Surface Measure on Lumber Grade for Boards Halfway between Consecutive Whole Feet

The grading rules call for boards that are halfway between the same consecutive whole feet of surface measure to be alternately rounded up or down. In the long run, it is assumed that the effects of this procedure will even out. But, data bank boards, because they are sampled individually, must stand alone. Some length and width combinations that yield halfway boards are shown in Table 9. When using widths measured to the nearest 1/4 inch, 6-, 6-, and 12-foot lengths are most likely to yield halfway boards.

Our approach to grading boards that are halfway between consecutive whole feet has been to use the smaller surface measure. For information, we include the grade when the larger surface measure is used (see appendix). The only exceptions concern those specific cases where the board may be rejected for the FAS or Selects grades because the size of a defect is too large. If using the larger surface measure reduces the relative size of the defect and allows the board to qualify for FAS or Selects, the larger surface measure is used.

How does this rounding up or down affect the grades? The effects of rounding were not straightforward. Ten percent (159 of 1,576 boards) of the data bank boards were halfway between consecutive whole feet of surface measure. There were 23 (of 196) halfway FAS boards (Table 10). Using the larger surface measure, 15 remained FAS, 6 became Selects, and 2 dropped to No. 1 Common. The ability to grade from the best face in Selects was an advantage here.

In the Selects grade, 26 of 209 boards were halfway (Table 11). Only eight boards retained the Selects grade when the higher surface measure was used. Of the 16 that lost grade,

**Table 9. —Board length and width (to the nearest 1/4 inch) combinations that result in surface measures halfway between consecutive whole feet of surface measure (length in feet times width In inches divided by 12 equals surface measure)**

| Standard length (ft) | Width to the nearest 1/4 inch |
|---|---|
| 4 | 7.5, 10.5 |
| 5 | 6.0 |
| 6 | 5.0, 7.0, 9.0, 11.0, 13.0 |
| 7 | 6.0 |
| 6 | 5.25, 6.75, 8.25, 9.75, 11.25, 12.75 |
| 9 | 6.0, 10.0 |
| 10 | 9.0 |
| 11 | 6.0 |
| 12 | 4.5, 5.5, 6.5, 7.5, 6.5, 9.5, 10.5, 11.5, 12.5 |
| 13 | 6.0 |
| 14 | 9.0 |
| 15 | 6.0, 10.0 |
| 16 | — |

15 dropped to No. 1 Common and 3 dropped to No. 2A Common. Once the surface area of the better face grading cuttings failed to meet the requirements for Selects, the board had to be graded from the back or poorer face. The special advantages when grading Selects no longer applied (ignoring the type and location of defects in No. 1 Common-back Selects, for example).

The 56 halfway No. 1 Common boards were somewhat as expected (Table 12). Of the 13 boards whose lower surface measures were 2 or 3 feet, 10 dropped a grade when the larger surface measure was used. Of the 12 boards with surface measures of 7 feet or more, 9 retained the No. 1 Common grade when the higher surface measure was used. Of the remainder (greater than 3 and less than 7 feet of surface measure), 18 lost and 13 retained the grade.

Fifty of the 54 No. 2A Common halfway boards retained their grade when the larger surface measure value was used (Table 13). As with all other grades, the computer program or human grader is free to search for other grading cuttings if the minimum grade requirements are not met on the first try. With more cuttings generally allowed when grading No. 2A Common, it is expected that additional areas will be used more often when the larger surface area is the divisor. And, as discussed in the earlier section on data bank quality, when the maximum NHLA grade was calculated, around 60 percent of the No. 2A Common boards had grading cutting surface areas of 62 percent or more. Because No. 2A Common begins at 50 percent, most of these would retain their grade even without an additional cutting being used.

## Summary

The purpose of lumber data banks is to provide raw material of known quality for utilization research studies and to serve as an industrial decision-making tool when used with computerized lumber cut-up programs. The 1992 Data Bank for Red Oak Lumber provides extensive information on each board. Since there are opportunities for error when computer-grading real boards, particularly at the margins of each grade, users can plot boards and check our grading results. Currently there are 198 FAS, 209 Selects, 591 No. 1 Common, and 580 No. 2A Common boards totaling 1,578 boards in the data bank. We anticipate adding additional boards, including some No. 3A Common, in the near future.

NHLA grades are based on the assumption that the full range of quality is available for each grade and that, on average, a large sample of lumber graded according to the rules will reflect this range. Users, however, may be interested in only one part of the grade quality range. Data bank boards, therefore, must stand alone. To facilitate subsampling, quality levels are identified within each grade for No. 1 Common and No. 2A Common boards.

All board features are described as rectangles with dimensions and their locations recorded to the nearest 1/4 inch. Worm holes smaller than 1/4 inch are referenced by numerical code to reflect their size. Large defects are recorded as a series of smaller rectangles.

All boards were kiln dried and graded with the Special Kiln Dried Rule. The Special Rule was used because it counts all defects as if the boards were air dried. The one exception to the Special Rule is that we did not use any allowances for scant widths. FAS boards start with a 6-inch width, Selects with a 4-inch width, and No. 1 Common and No. 2A Common with 3-inch widths. The user who wishes to work with scant width allowances must examine the narrower width boards of the lower grades. The classification of No. 1 Common and No. 2A Common boards into quality levels should be helpful.

Many of the boards in these data banks are straight. Most boards contain 1/4 inch of crook or slight taper. Other data sets containing heavy taper or crook of 1/2 inch or more are available.

To reduce the subjectivity that attends the identification of certain defects, adjustments were made. Surface checks were treated as splits if deep enough to cause degrade. Tears or splits in the wood adjacent to the pith were uniquely identified. For grading purposes both deep surface checks and pith-related tears or splits were treated as shake and not allowed on the back side of sound cuttings.

Stain severe enough to be objectionable under a clear finish was identified as incipient decay and also not allowed on the back side of sound cuttings. The reader may consider incipient decay a sound defect (allowable on the sound face of a grading cutting) and can regrade boards containing incipient decay.

For users of kiln-dried lumber who assume that the grades represent a uniform transition from one quality level to another, a word or two of caution: FAS and No. 1 Common grades are rather straightforward, as are Selects with a sound back. Selects with a No. 1 Common back, however, are graded without regard to the relative location of defects from one face to the other and can contain rot, pith, shake, or wane on the back face of the grading cuttings.

No. 2A Common boards contain more usable areas than might be suggested by the minimum clear-face grading cuttings surface area of 50 percent. Fifty-four No. 2A Common boards had surface measures halfway between consecutive whole feet. When the largest surface measure was used to determine the grade, only four boards were found to lose grade. When all possible grading cuttings were used within the number constraints of the NHLA rules, more than 60 percent of all No. 2A Common boards had at least 62 percent in grading cuttings surface area.

The appendix contains lookup tables that will greatly facilitate any sampling procedures. For each grade, boards are listed in order of increasing width and, for boards of the same width, increasing length. Detailed information is given on surface measure, number of grading cuttings used, and the percent of each board's surface measure in the grading cuttings for FAS and No. 1 Common and No. 2A Common.

It is hoped that this data bank can find widespread use in the research community. Researchers using the same sample of boards now can have confidence that differences in results are due to differences in research methodology. Heretofore, raw material quality has been one of the greatest unknowns.

To obtain diskettes containing board data, contact 1992 Data Bank for Red Oak Lumber, Forestry Sciences Laboratory, Rt. 2, Box 562-B, Princeton, WV 24740. Please specify preference of 3.5-inch high density diskettes or 5.25-inch high density diskettes.

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## Appendix

Table 10.--Board information report for FAS lumber

| Board number | Measured width (inches) | Length (inches) | Minimum grade (a) % S.M. & No. of cuttings | Grade | Maximum grade (b) % S.M. & No. of cuttings | Grade | Surface measure (feet) | Larger surf. measure grade (c) |
|---|---|---|---|---|---|---|---|---|
| 1 | 6.00 | 108.50 | 108-1 | FAS | 108-1 | FAS | 4 or 5 | FAS |
| 2 | 6.00 | 120.75 | 85-1 | FAS | 85-1 | FAS | 5 | |
| 3 | 6.00 | 120.75 | 84-1 | FAS | 84-1 | FAS | 5 | |
| 4 | 6.00 | 144.50 | 95-1 | FAS | 95-1 | FAS | 6 | |
| 5 | 6.00 | 144.75 | 97-1 | FAS | 97-1 | FAS | 6 | |
| 6 | 6.00 | 168.50 | 91-2 | FAS | 91-2 | FAS | 7 | |
| 7 | 6.00 | 168.50 | 88-1 | FAS | 88-1 | FAS | 7 | |
| 8 | 6.00 | 168.75 | 96-1 | FAS | 96-1 | FAS | 7 | |
| 9 | 6.00 | 168.75 | 92-2 | FAS | 92-2 | FAS | 7 | |
| 10 | 6.00 | 192.50 | 93-2 | FAS | 93-2 | FAS | 8 | |
| 11 | 6.00 | 192.50 | 91-2 | FAS | 91-2 | FAS | 8 | |
| 12 | 6.00 | 192.50 | 84-2 | FAS | 98-2 | FAS | 8 | |
| 13 | 6.00 | 192.50 | 87-1 | FAS | 87-1 | FAS | 8 | |
| 14 | 6.00 | 192.75 | 96-1 | FAS | 96-1 | FAS | 8 | |
| 15 | 6.25 | 96.25 | 100-1 | FAS | 100-1 | FAS | 4 | |
| 16 | 6.25 | 96.75 | 105-1 | FAS | 105-1 | FAS | 4 | |
| 17 | 6.25 | 96.75 | 88-1 | FAS | 88-1 | FAS | 4 | |
| 18 | 6.25 | 108.50 | 91-1 | FAS | 91-1 | FAS | 5 | |
| 19 | 6.25 | 144.75 | 105-1 | FAS | 105-1 | FAS | 6 | |
| 20 | 6.25 | 168.25 | 96-1 | FAS | 96-1 | FAS | 7 | |
| 21 | 6.25 | 168.75 | 92-1 | FAS | 92-1 | FAS | 7 | |
| 22 | 6.25 | 168.75 | 84-1 | FAS | 84-1 | FAS | 7 | |
| 23 | 6.25 | 192.00 | 85-2 | FAS | 85-2 | FAS | 8 | |
| 24 | 6.25 | 192.50 | 90-1 | FAS | 90-1 | FAS | 8 | |
| 25 | 6.50 | 168.50 | 84-1 | FAS | 84-1 | FAS | 8 | |
| 26 | 6.50 | 192.00 | 86-1 | FAS | 86-1 | FAS | 9 | |
| 27 | 6.50 | 192.50 | 88-1 | FAS | 88-1 | FAS | 9 | |
| 28 | 6.50 | 192.50 | 84-2 | FAS | 84-2 | FAS | 9 | |
| 29 | 6.75 | 96.75 | 105-1 | FAS | 105-1 | FAS | 4 or 5 | FAS |
| 30 | 6.75 | 144.75 | 91-1 | FAS | 91-1 | FAS | 7 | |
| 31 | 6.75 | 192.25 | 88-2 | FAS | 88-2 | FAS | 9 | |
| 32 | 6.75 | 192.75 | 90-2 | FAS | 90-2 | FAS | 9 | |
| 33 | 7.00 | 96.25 | 84-1 | FAS | 84-1 | FAS | 5 | |
| 34 | 7.00 | 144.25 | 100-1 | FAS | 100-1 | FAS | 7 | |
| 35 | 7.00 | 168.00 | 90-1 | FAS | 90-1 | FAS | 8 | |
| 36 | 7.00 | 168.25 | 93-2 | FAS | 93-2 | FAS | 8 | |
| 37 | 7.00 | 168.50 | 92-2 | FAS | 92-2 | FAS | 8 | |
| 38 | 7.00 | 168.75 | 88-2 | FAS | 88-2 | FAS | 8 | |
| 39 | 7.00 | 192.50 | 89-2 | FAS | 89-2 | FAS | 9 | |
| 40 | 7.00 | 192.50 | 85-1 | FAS | 85-1 | FAS | 9 | |
| 41 | 7.00 | 192.50 | 88-1 | FAS | 88-1 | FAS | 9 | |
| 42 | 7.00 | 192.75 | 84-2 | FAS | 84-2 | FAS | 9 | |
| 43 | 7.00 | 192.75 | 100-1 | FAS | 100-1 | FAS | 9 | |
| 44 | 7.25 | 108.50 | 98-1 | FAS | 98-1 | FAS | 5 | |
| 45 | 7.25 | 120.00 | 87-1 | FAS | 93-2 | FAS | 6 | |
| 46 | 7.25 | 120.50 | 88-1 | FAS | 93-2 | FAS | 6 | |
| 47 | 7.25 | 120.75 | 90-1 | FAS | 90-1 | FAS | 6 | |
| 48 | 7.25 | 142.75 | 84-1 | FAS | 84-1 | FAS | 7 | |
| 49 | 7.25 | 144.75 | 104-2 | FAS | 104-2 | FAS | 7 | |
| 50 | 7.25 | 144.75 | 93-1 | FAS | 93-1 | FAS | 7 | |

(a) - Minimum grade as determined by ReGS (Realistic Grading System) is the first computer solution found that meets the minimum requirements of the grade.

(b) - Maximum NHLA. Graded by hand from a to-scale plot of the board. Contains all cuttings up to the maximum allowed for the grade. S.M. is surface measure.

(c) - When board surface measure is half-way between consecutive standard feet, the minimum and maximum grades are determined with the smaller surface measure. Grades in this column are determined with the larger surface measure.

Table 10.--Board information report for FAS lumber

| Board number | Measured width (inches) | Length (inches) | Minimum grade (a) % S.M. & No. of cuttings | Minimum grade (a) Grade | Maximum grade (b) % S.M. & No. of cuttings | Maximum grade (b) Grade | Surface measure (feet) | Larger surf. measure grade (c) |
|---|---|---|---|---|---|---|---|---|
| 51 | 7.25 | 168.50 | 84-2 | FAS | 84-2 | FAS | 8 | |
| 52 | 7.50 | 144.00 | 89-1 | FAS | 89-1 | FAS | 7 or 8 | FAS |
| 53 | 7.50 | 144.50 | 92-1 | FAS | 96-2 | FAS | 7 or 8 | FAS |
| 54 | 7.50 | 145.00 | 92-1 | FAS | 96-2 | FAS | 7 or 8 | FAS |
| 55 | 7.50 | 168.00 | 90-1 | FAS | 90-1 | FAS | 9 | |
| 56 | 7.50 | 192.00 | 87-1 | FAS | 87-1 | FAS | 10 | |
| 57 | 7.75 | 96.75 | 84-1 | FAS | 84-1 | FAS | 5 | |
| 58 | 7.75 | 120.50 | 92-1 | FAS | 92-1 | FAS | 6 | |
| 59 | 7.75 | 120.75 | 97-2 | FAS | 97-2 | FAS | 6 | |
| 60 | 7.75 | 168.50 | 84-2 | FAS | 84-2 | FAS | 9 | |
| 61 | 7.75 | 168.75 | 84-2 | FAS | 84-2 | FAS | 9 | |
| 62 | 8.00 | 96.50 | 96-1 | FAS | 96-1 | FAS | 5 | |
| 63 | 8.00 | 96.75 | 89-1 | FAS | 89-1 | FAS | 5 | |
| 64 | 8.00 | 120.50 | 88-1 | FAS | 88-1 | FAS | 7 | |
| 65 | 8.00 | 120.75 | 87-1 | FAS | 87-1 | FAS | 7 | |
| 66 | 8.00 | 144.50 | 88-1 | FAS | 88-1 | FAS | 8 | |
| 67 | 8.00 | 144.75 | 84-2 | FAS | 84-2 | FAS | 8 | |
| 68 | 8.00 | 156.50 | 87-1 | FAS | 87-1 | FAS | 9 | |
| 69 | 8.00 | 168.50 | 88-1 | FAS | 88-1 | FAS | 9 | |
| 70 | 8.00 | 192.00 | 91-1 | FAS | 91-1 | FAS | 11 | |
| 71 | 8.00 | 192.25 | 84-2 | FAS | 84-2 | FAS | 11 | |
| 72 | 8.00 | 192.25 | 86-2 | FAS | 86-2 | FAS | 11 | |
| 73 | 8.00 | 192.50 | 86-2 | FAS | 86-2 | FAS | 11 | |
| 74 | 8.00 | 192.50 | 94-1 | FAS | 94-1 | FAS | 11 | |
| 75 | 8.00 | 192.50 | 87-2 | FAS | 87-2 | FAS | 11 | |
| 76 | 8.25 | 120.25 | 90-1 | FAS | 90-1 | FAS | 7 | |
| 77 | 8.25 | 120.50 | 96-1 | FAS | 96-1 | FAS | 7 | |
| 78 | 8.25 | 120.75 | 87-1 | FAS | 87-1 | FAS | 7 | |
| 79 | 8.25 | 144.50 | 91-1 | FAS | 91-1 | FAS | 8 | |
| 80 | 8.25 | 144.50 | 100-1 | FAS | 100-1 | FAS | 8 | |
| 81 | 8.25 | 144.75 | 83-2 | FAS | 83-2 | FAS | 8 | |
| 82 | 8.25 | 144.75 | 87-1 | FAS | 87-1 | FAS | 8 | |
| 83 | 8.25 | 144.75 | 86-1 | FAS | 86-1 | FAS | 8 | |
| 84 | 8.25 | 144.75 | 88-1 | FAS | 88-1 | FAS | 8 | |
| 85 | 8.25 | 144.75 | 98-1 | FAS | 98-1 | FAS | 8 | |
| 86 | 8.50 | 96.00 | 84-1 | FAS | 84-1 | FAS | 6 | |
| 87 | 8.50 | 108.50 | 95-1 | FAS | 101-2 | FAS | 6 | |
| 88 | 8.50 | 120.00 | 84-1 | FAS | 84-1 | FAS | 7 | |
| 89 | 8.50 | 144.75 | 85-2 | FAS | 85-2 | FAS | 8 or 9 | FAS |
| 90 | 8.50 | 168.50 | 98-1 | FAS | 98-1 | FAS | 10 | |
| 91 | 8.50 | 168.50 | 94-1 | FAS | 94-1 | FAS | 10 | |
| 92 | 8.50 | 168.75 | 97-1 | FAS | 97-1 | FAS | 10 | |
| 93 | 8.50 | 192.50 | 87-1 | FAS | 87-1 | FAS | 11 | |
| 94 | 8.50 | 192.75 | 100-1 | FAS | 100-1 | FAS | 11 | |
| 95 | 8.75 | 120.75 | 89-1 | FAS | 89-1 | FAS | 7 | |
| 96 | 8.75 | 120.75 | 84-1 | FAS | 84-1 | FAS | 7 | |
| 97 | 8.75 | 120.75 | 93-1 | FAS | 93-1 | FAS | 7 | |
| 98 | 8.75 | 120.75 | 87-1 | FAS | 87-1 | FAS | 7 | |
| 99 | 8.75 | 143.00 | 93-1 | FAS | 98-2 | FAS | 8 | |
| 100 | 8.75 | 144.50 | 89-1 | FAS | 89-1 | FAS | 9 | |

(a) - Minimum grade as determined by ReGS (Realistic Grading System) is the first computer solution found that meets the minimum requirements of the grade.

(b) - Maximum NHLA. Graded by hand from a to-scale plot of the board. Contains all cuttings up to the maximum allowed for the grade. S.M. is surface measure.

(c) - When board surface measure is half-way between consecutive standard feet, the minimum and maximum grades are determined with the smaller surface measure. Grades in this column are determined with the larger surface measure.

Table 10.--Board information report for FAS lumber

| Board number | Measured width (inches) | Length (inches) | Minimum grade (a) % S.M. % No. of cuttings | Grade | Maximum grade (b) % S.M. & No. of cuttings | Grade | Surface measure (feet) | Larger surf. measure grade (c) |
|---|---|---|---|---|---|---|---|---|
| 101 | 8.75 | 144.75 | 89-1 | FAS | 89-1 | FAS | 9 | |
| 102 | 8.75 | 144.75 | 85-2 | FAS | 85-2 | FAS | 9 | |
| 103 | 8.75 | 192.50 | 86-2 | FAS | 86-2 | FAS | 12 | |
| 104 | 8.75 | 192.50 | 85-2 | FAS | 85-2 | FAS | 12 | |
| 105 | 8.75 | 192.75 | 90-2 | FAS | 90-2 | FAS | 12 | |
| 106 | 9.00 | 96.75 | 96-1 | FAS | 96-1 | FAS | 6 | |
| 107 | 9.00 | 96.75 | 99-2 | FAS | 99-2 | FAS | 6 | |
| 108 | 9.00 | 120.25 | 86-1 | FAS | 95-2 | FAS | 7 or 8 | FAS |
| 109 | 9.00 | 120.50 | 89-1 | FAS | 98-2 | FAS | 7 or 8 | FAS |
| 110 | 9.00 | 120.75 | 95-1 | FAS | 95-1 | FAS | 7 or 8 | FAS |
| 111 | 9.00 | 120.75 | 92-1 | FAS | 92-1 | FAS | 7 or 8 | Selects |
| 112 | 9.00 | 120.75 | 98-2 | FAS | 98-2 | FAS | 7 or 8 | FAS |
| 113 | 9.00 | 144.00 | 83-2 | FAS | 83-2 | FAS | 9 | |
| 114 | 9.00 | 144.25 | 94-1 | FAS | 94-1 | FAS | 9 | |
| 115 | 9.00 | 144.75 | 90-1 | FAS | 93-2 | FAS | 9 | |
| 116 | 9.00 | 144.75 | 89-1 | FAS | 89-1 | FAS | 9 | |
| 117 | 9.00 | 145.00 | 84-2 | FAS | 84-2 | FAS | 9 | |
| 118 | 9.00 | 156.75 | 95-2 | FAS | 95-2 | FAS | 10 | |
| 119 | 9.00 | 168.50 | 90-2 | FAS | 90-2 | FAS | 10 or 11 | Selects |
| 120 | 9.00 | 168.50 | 84-1 | FAS | 89-2 | FAS | 10 or 11 | Selects |
| 121 | 9.00 | 169.00 | 91-1 | FAS | 91-1 | FAS | 10 or 11 | Selects |
| 122 | 9.00 | 192.25 | 84-2 | FAS | 84-2 | FAS | 12 | |
| 123 | 9.00 | 192.50 | 86-2 | FAS | 86-2 | FAS | 12 | |
| 124 | 9.25 | 144.00 | 99-1 | FAS | 99-1 | FAS | 9 | |
| 125 | 9.25 | 144.75 | 83-2 | FAS | 83-2 | FAS | 9 | |
| 126 | 9.25 | 144.75 | 86-1 | FAS | 86-1 | FAS | 9 | |
| 127 | 9.25 | 168.50 | 90-1 | FAS | 99-2 | FAS | 11 | |
| 128 | 9.25 | 168.75 | 88-1 | FAS | 88-1 | FAS | 11 | |
| 129 | 9.25 | 192.50 | 87-2 | FAS | 87-2 | FAS | 12 | |
| 130 | 9.50 | 108.50 | 83-1 | FAS | 83-1 | FAS | 7 | |
| 131 | 9.50 | 108.75 | 92-1 | FAS | 92-1 | FAS | 7 | |
| 132 | 9.50 | 108.75 | 97-1 | FAS | 97-1 | FAS | 7 | |
| 133 | 9.50 | 117.25 | 97-1 | FAS | 97-1 | FAS | 7 | |
| 134 | 9.50 | 120.75 | 92-1 | FAS | 92-1 | FAS | 8 | |
| 135 | 9.50 | 144.00 | 84-2 | FAS | 84-2 | FAS | 9 or 10 | lC |
| 136 | 9.50 | 144.25 | 100-1 | FAS | 100-1 | FAS | 9 or 10 | FAS |
| 137 | 9.50 | 144.25 | 89-2 | FAS | 89-2 | FAS | 9 or 10 | Selects |
| 138 | 9.50 | 144.50 | 84-1 | FAS | 84-1 | FAS | 9 or 10 | lC |
| 139 | 9.50 | 144.75 | 98-2 | FAS | 98-2 | FAS | 9 or 10 | FAS |
| 140 | 9.50 | 168.00 | 84-1 | FAS | 91-2 | FAS | 11 | |
| 141 | 9.50 | 168.00 | 86-2 | FAS | 86-2 | FAS | 11 | |
| 142 | 9.50 | 192.25 | 94-1 | FAS | 94-1 | FAS | 13 | |
| 143 | 9.75 | 120.75 | 99-1 | FAS | 99-1 | FAS | 8 | |
| 144 | 9.75 | 120.75 | 85-2 | FAS | 85-2 | FAS | 8 | |
| 145 | 9.75 | 120.75 | 85-1 | FAS | 85-1 | FAS | 8 | |
| 146 | 9.75 | 143.25 | 90-2 | FAS | 90-2 | FAS | 9 | |
| 147 | 9.75 | 144.25 | 86-1 | FAS | 93-2 | FAS | 10 | |
| 148 | 9.75 | 144.50 | 87-1 | FAS | 87-1 | FAS | 10 | |
| 149 | 9.75 | 168.50 | 86-1 | FAS | 86-1 | FAS | 11 | |
| 150 | 9.75 | 192.75 | 83-3 | FAS | 83-3 | FAS | 13 | |

(a) - Minimum grade as determined by ReGS (Realistic Grading System) is the first computer solution found that meets the minimum requirements of the grade.

(b) - Maximum NHLA. Graded by hand from a to-scale plot of the board. Contains all cuttings up to the maximum allowed for the grade. S.M. is surface measure.

(c) - When board surface measure is half-way between consecutive standard feet, the minimum and maximum grades are determined with the smaller surface measure. Grades in this column are determined with the larger surface measure.

Table 10.--Board information report for FAS lumber

| Board number | Measured width (inches) | Length (inches) | Minimum grade (a) % S.M. & No. of cuttings | Grade | Maximum grade (b) % S.M. & No. of cuttings | Grade | Surface measure (feet) | Larger surf. measure grade (c) |
|---|---|---|---|---|---|---|---|---|
| 151 | 10.00 | 120.75 | 87-2 | FAS | 87-2 | FAS | 8 | |
| 152 | 10.00 | 120.75 | 86-2 | FAS | 86-2 | FAS | 8 | |
| 153 | 10.00 | 120.75 | 99-1 | FAS | 99-1 | FAS | 8 | |
| 154 | 10.00 | 168.50 | 84-3 | FAS | 84-3 | FAS | 12 | |
| 155 | 10.00 | 168.50 | 90-2 | FAS | 90-2 | FAS | 12 | |
| 156 | 10.00 | 192.00 | 84-1 | FAS | 84-1 | FAS | 13 | |
| 157 | 10.00 | 192.00 | 97-1 | FAS | 97-1 | FAS | 13 | |
| 158 | 10.00 | 192.25 | 90-1 | FAS | 90-1 | FAS | 13 | |
| 159 | 10.00 | 192.25 | 84-3 | FAS | 84-3 | FAS | 13 | |
| 160 | 10.00 | 192.50 | 83-3 | FAS | 90-3 | FAS | 13 | |
| 161 | 10.00 | 192.50 | 92-1 | FAS | 92-1 | FAS | 13 | |
| 162 | 10.25 | 144.75 | 93-2 | FAS | 93-2 | FAS | 10 | |
| 163 | 10.25 | 168.25 | 87-2 | FAS | 87-2 | FAS | 12 | |
| 164 | 10.25 | 168.75 | 83-2 | FAS | 83-2 | FAS | 12 | |
| 165 | 10.50 | 120.25 | 84-1 | FAS | 84-1 | FAS | 9 | |
| 166 | 10.50 | 144.00 | 102-1 | FAS | 102-1 | FAS | 10 or 11 | FAS |
| 167 | 10.50 | 144.25 | 92-3 | FAS | 92-3 | FAS | 10 or 11 | Selects |
| 168 | 10.50 | 144.50 | 96-2 | FAS | 96-2 | FAS | 10 or 11 | FAS |
| 169 | 10.50 | 168.00 | 106-2 | FAS | 106-2 | FAS | 12 | |
| 170 | 10.50 | 168.25 | 98-1 | FAS | 98-1 | FAS | 12 | |
| 171 | 10.50 | 168.50 | 93-2 | FAS | 93-2 | FAS | 12 | |
| 172 | 10.75 | 119.25 | 95-1 | FAS | 95-1 | FAS | 8 | |
| 173 | 10.75 | 144.50 | 84-1 | FAS | 84-1 | FAS | 11 | |
| 174 | 10.75 | 144.75 | 84-2 | FAS | 84-2 | FAS | 11 | |
| 175 | 10.75 | 168.25 | 85-1 | FAS | 85-1 | FAS | 13 | |
| 176 | 11.00 | 144.25 | 84-1 | FAS | 93-2 | FAS | 11 | |
| 177 | 11.00 | 167.00 | 92-1 | FAS | 92-1 | FAS | 12 | |
| 178 | 11.00 | 168.00 | 83-2 | FAS | 91-2 | FAS | 13 | |
| 179 | 11.00 | 168.25 | 88-2 | FAS | 88-2 | FAS | 13 | |
| 180 | 11.00 | 192.50 | 89-1 | FAS | 89-1 | FAS | 15 | |
| 181 | 11.00 | 192.50 | 89-3 | FAS | 89-3 | FAS | 15 | |
| 182 | 11.00 | 192.75 | 86-3 | FAS | 86-3 | FAS | 15 | |
| 183 | 11.25 | 168.50 | 84-3 | FAS | 84-3 | FAS | 13 | |
| 184 | 11.25 | 192.00 | 83-2 | FAS | 83-2 | FAS | 15 | |
| 185 | 11.50 | 120.50 | 86-2 | FAS | 86-2 | FAS | 10 | |
| 186 | 11.50 | 120.75 | 85-1 | FAS | 85-1 | FAS | 10 | |
| 187 | 11.50 | 120.75 | 88-1 | FAS | 88-1 | FAS | 10 | |
| 188 | 11.50 | 144.00 | 85-2 | FAS | 85-2 | FAS | 11 or 12 | FAS |
| 189 | 11.50 | 168.00 | 88-2 | FAS | 88-2 | FAS | 13 | |
| 190 | 11.75 | 120.75 | 89-1 | FAS | 96-2 | FAS | 10 | |
| 191 | 11.75 | 167.25 | 96-2 | FAS | 96-2 | FAS | 13 | |
| 192 | 11.75 | 169.25 | 86-1 | FAS | 86-1 | FAS | 14 | |
| 193 | 11.75 | 192.25 | 85-3 | FAS | 85-3 | FAS | 16 | |
| 194 | 12.00 | 145.00 | 85-1 | FAS | 85-1 | FAS | 12 | |
| 195 | 12.00 | 192.50 | 91-2 | FAS | 94-3 | FAS | 16 | |
| 196 | 12.00 | 192.75 | 87-2 | FAS | 87-2 | FAS | 16 | |
| 197 | 12.25 | 168.50 | 92-2 | FAS | 92-2 | FAS | 14 | |
| 198 | 12.25 | 192.50 | 94-2 | FAS | 94-2 | FAS | 16 | |

(a) - Minimum grade as determined by ReGS (Realistic Grading System) is the first computer solution found that meets the minimum requirements of the grade.

(b) - Maximum NHLA. Graded by hand from a to-scale plot of the board. Contains all cuttings up to the maximum allowed for the grade. S.M. is surface measure.

(c) - When board surface measure is half-way between consecutive standard feet, the minimum and maximum grades are determined with the smaller surface measure. Grades in this column are determined with the larger surface measure.

Table 11.--Board information report for Selects lumber

| Board number | Measured width (inches) | Length (inches) | Grade | Type of back face | Surface measure (feet) | Larger surf. measure grade (a) |
|---|---|---|---|---|---|---|
| 1 | 4.25 | 73.00 | Selects | 1C back | 2 | |
| 2 | 4.25 | 149.25 | Selects | 1C back | 4 | |
| 3 | 4.50 | 144.50 | Selects | Sound-back | 4 or 5 | 1C |
| 4 | 4.50 | 145.25 | Selects | Sound-back | 4 or 5 | 1C |
| 5 | 4.75 | 120.75 | Selects | 1C back | 4 | |
| 6 | 4.75 | 133.00 | Selects | 1C back | 4 | |
| 7 | 4.75 | 192.50 | Selects | 1C back | 6 | |
| 8 | 5.00 | 78.25 | Selects | Sound-back | 2 or 3 | 1C |
| 9 | 5.00 | 84.00 | Selects | 1C back | 3 | |
| 10 | 5.00 | 120.25 | Selects | 1C back | 4 | |
| 11 | 5.00 | 168.75 | Selects | 1C back | 6 | |
| 12 | 5.25 | 73.00 | Selects | 1C back | 3 | |
| 13 | 5.25 | 85.25 | Selects | 1C back | 3 | |
| 14 | 5.25 | 96.00 | Selects | 1C back | 3 or 4 | 2A |
| 15 | 5.25 | 96.25 | Selects | 1C back | 3 or 4 | Selects |
| 16 | 5.25 | 96.75 | Selects | Sound-back | 3 or 4 | 2A |
| 17 | 5.25 | 97.50 | Selects | 1C back | 3 or 4 | Selects |
| 18 | 5.25 | 121.00 | Selects | Sound-back | 4 | |
| 19 | 5.25 | 121.00 | Selects | 1C back | 4 | |
| 20 | 5.25 | 168.75 | Selects | 1C back | 6 | |
| 21 | 5.25 | 168.75 | Selects | 1C back | 6 | |
| 22 | 5.50 | 97.00 | Selects | Sound-back | 4 | |
| 23 | 5.50 | 192.75 | Selects | Sound-back | 7 | |
| 24 | 5.75 | 72.00 | Selects | 1C back | 3 | |
| 25 | 5.75 | 72.75 | Selects | 1C back | 3 | |
| 26 | 5.75 | 74.00 | Selects | 1C back | 3 | |
| 27 | 5.75 | 77.50 | Selects | 1C back | 3 | |
| 28 | 5.75 | 88.75 | Selects | 1C back | 3 | |
| 29 | 5.75 | 108.50 | Selects | Sound-back | 4 | |
| 30 | 5.75 | 120.75 | Selects | Sound-back | 5 | |
| 31 | 5.75 | 123.50 | Selects | Sound-back | 5 | |
| 32 | 5.75 | 144.75 | Selects | 1C back | 6 | |
| 33 | 5.75 | 147.50 | Selects | 1C back | 6 | |
| 34 | 5.75 | 192.50 | Selects | Sound-back | 8 | |
| 35 | 5.75 | 192.75 | Selects | Sound-back | 8 | |
| 36 | 6.00 | 73.00 | Selects | Sound-back | 3 | |
| 37 | 6.00 | 73.75 | Selects | 1C back | 3 | |
| 38 | 6.00 | 74.25 | Selects | 1C back | 3 | |
| 39 | 6.00 | 118.50 | Selects | 1C back | 4 or 5 | 1C |
| 40 | 6.00 | 120.50 | Selects | 1C back | 5 | |
| 41 | 6.00 | 144.50 | Selects | Sound-back | 6 | |
| 42 | 6.00 | 144.75 | Selects | 1C back | 6 | |
| 43 | 6.00 | 168.50 | selects | 1C back | 7 | |
| 44 | 6.00 | 191.00 | Selects | 1C back | 7 or 8 | Selects |
| 45 | 6.00 | 192.50 | Selects | 1C back | 8 | |
| 46 | 6.00 | 192.75 | Selects | 1C back | 8 | |
| 47 | 6.25 | 74.50 | Selects | 1C back | 3 | |
| 48 | 6.25 | 75.00 | Selects | Sound-back | 3 | |
| 49 | 6.25 | 76.00 | Selects | Sound-back | 3 | |
| 50 | 6.25 | 82.75 | Selects | Sound-back | 3 | |

(a) - When board surface measure is half-way between consecutive standard feet, the grade is determined with the smaller surface measure. Grades in this column are determined with the larger surface measure.

Table 11.--Board information report for Selects lumber

| Board number | Measurad width (inches) | Length (inches) | Grade | Type of back face | Surface measure (feet) | Larger surf. measure grade (a) |
|---|---|---|---|---|---|---|
| 51 | 6.25 | 108.50 | Selects | 1C back | 5 | |
| 52 | 6.25 | 120.75 | Selects | 1C back | 5 | |
| 53 | 6.25 | 144.50 | Selects | 1C back | 6 | |
| 54 | 6.25 | 168.50 | Selects | 1C back | 7 | |
| 55 | 6.25 | 192.50 | Selects | 1C back | 8 | |
| 56 | 6.50 | 74.00 | Selects | 1C back | 3 | |
| 57 | 6.50 | 120.75 | Selects | Sound-back | 5 | |
| 58 | 6.50 | 144.00 | Selects | 1C back | 6 or 7 | 1C |
| 59 | 6.50 | 144.00 | Selects | 1C back | 6 or 7 | 1C |
| 60 | 6.50 | 144.75 | Selects | 1C back | 6 or 7 | 1C |
| 61 | 6.50 | 144.75 | Selects | 1C back | 6 or 7 | 1C |
| 62 | 6.50 | 145.00 | Selects | 1C back | 6 or 7 | 1C |
| 63 | 6.50 | 168.75 | Selects | 1C back | 8 | |
| 64 | 6.50 | 192.25 | Selects | 1C back | 9 | |
| 65 | 6.50 | 192.50 | Selects | 1C back | 9 | |
| 66 | 6.50 | 192.50 | Selects | 1C back | 9 | |
| 67 | 6.75 | 120.75 | Selects | Sound-back | 6 | |
| 68 | 6.75 | 121.00 | Selects | 1C back | 6 | |
| 69 | 6.75 | 144.75 | Selects | 1C back | 7 | |
| 70 | 6.75 | 145.25 | Selects | 1C back | 7 | |
| 71 | 6.75 | 168.50 | Selects | 1C back | 8 | |
| 72 | 6.75 | 168.50 | Selects | 1C back | 8 | |
| 73 | 7.00 | 97.00 | Selects | 1C back | 5 | |
| 74 | 7.00 | 120.00 | Selects | 1C back | 6 | |
| 75 | 7.00 | 120.00 | Selects | 1C back | 6 | |
| 76 | 7.00 | 120.25 | Selects | Sound-back | 6 | |
| 77 | 7.00 | 120.75 | Selects | 1C back | 6 | |
| 78 | 7.00 | 120.75 | Selects | 1C back | 6 | |
| 79 | 7.00 | 132.75 | Selects | 1C back | 6 | |
| 80 | 7.00 | 144.25 | Selects | 1C back | 7 | |
| 81 | 7.00 | 144.75 | Selects | 1C back | 7 | |
| 82 | 7.00 | 144.75 | Selects | 1C back | 7 | |
| 83 | 7.00 | 168.00 | Selects | 1C back | 8 | |
| 84 | 7.00 | 168.50 | Selects | 1C back | 8 | |
| 85 | 7.00 | 192.50 | Selects | 1C back | 9 | |
| 86 | 7.00 | 192.75 | Selects | 1C back | 9 | |
| 87 | 7.25 | 73.00 | Selects | 1C back | 4 | |
| 88 | 7.25 | 96.75 | Selects | 1C back | 5 | |
| 89 | 7.25 | 120.75 | Selects | 1C back | 6 | |
| 90 | 7.25 | 121.00 | Selects | 1C back | 6 | |
| 91 | 7.25 | 144.50 | Selects | 1C back | 7 | |
| 92 | 7.25 | 168.00 | Selects | 1C back | 8 | |
| 93 | 7.25 | 168.50 | Selects | 1C back | 8 | |
| 94 | 7.25 | 192.00 | Selects | 1C back | 10 | |
| 95 | 7.25 | 192.50 | Selects | 1C back | 10 | |
| 96 | 7.50 | 73.00 | Selects | 1C back | 4 | |
| 97 | 7.50 | 96.75 | Selects | 1C back | 5 | |
| 98 | 7.50 | 96.75 | Selects | 1C back | 5 | |
| 99 | 7.50 | 144.25 | Selects | Sound-back | 7 or 8 | Selects |
| 100 | 7.50 | 144.50 | Selects | 1C back | 7 or 8 | 1C |

(a) - When board surface measure is half-way between consecutive standard feet, the grade is determined with the smaller surface measure. Grades in this column are determined with the larger surface measure.

Table 11.--Board information report for Selects lumber

| Board number | Measured width (inches) | Length (inches) | Grade | Type of back face | Surface measure (feet) | Larger surf. measure grade (a) |
|---|---|---|---|---|---|---|
| 101 | 7.50 | 144.75 | Selects | 1C back | 7 or 8 | 1C |
| 102 | 7.50 | 144.75 | Selects | 1C back | 7 or 8 | Selects |
| 103 | 7.50 | 169.25 | Selects | 1C back | 9 | |
| 104 | 7.50 | 192.75 | Selects | 1C back | 10 | |
| 105 | 7.75 | 73.50 | Selects | 1C back | 4 | |
| 106 | 7.75 | 96.75 | Selects | 1C back | 5 | |
| 107 | 7.75 | 108.50 | Selects | 1C back | 6 | |
| 108 | 7.75 | 120.75 | Selects | 1C back | 6 | |
| 109 | 7.75 | 120.75 | Selects | 1C back | 6 | |
| 110 | 7.75 | 144.25 | Selects | 1C back | 8 | |
| 111 | 7.75 | 144.75 | Selects | Sound-back | 8 | |
| 112 | 7.75 | 144.75 | Selects | 1C back | 8 | |
| 113 | 8.00 | 72.75 | Selects | Sound-back | 4 | |
| 114 | 8.00 | 108.50 | Selects | 1C back | 6 | |
| 115 | 8.00 | 108.50 | Selects | 1C back | 6 | |
| 116 | 8.00 | 108.75 | Selects | Sound-back | 6 | |
| 117 | 8.00 | 120.75 | Selects | 1C back | 7 | |
| 118 | 8.00 | 120.75 | Selects | 1C back | 7 | |
| 119 | 8.00 | 120.75 | Selects | 1C back | 7 | |
| 120 | 8.00 | 144.25 | Selects | 1C back | 8 | |
| 121 | 8.00 | 144.50 | Selects | 1C back | 8 | |
| 122 | 8.00 | 144.75 | Selects | 1C back | 8 | |
| 123 | 8.00 | 144.75 | Selects | 1C back | 8 | |
| 124 | 8.00 | 168.50 | Selects | Sound-back | 9 | |
| 125 | 8.00 | 168.75 | Selects | 1C back | 9 | |
| 126 | 8.25 | 120.25 | Selects | Sound-back | 7 | |
| 127 | 8.25 | 144.50 | Selects | Sound-back | 8 | |
| 128 | 8.25 | 144.75 | Selects | 1C back | 8 | |
| 129 | 8.25 | 168.00 | Selects | 1C back | 10 | |
| 130 | 8.25 | 168.50 | Selects | 1C back | 10 | |
| 131 | 8.25 | 168.75 | Selects | 1C back | 10 | |
| 132 | 8.25 | 168.75 | Selects | 1C back | 10 | |
| 133 | 8.50 | 73.00 | Selects | 1C back | 4 | |
| 134 | 8.50 | 132.75 | Selects | 1C back | 8 | |
| 135 | 8.50 | 144.00 | Selects | 1C back | 8 or 9 | 2A |
| 136 | 8.50 | 144.75 | Selects | 1C back | 8 or 9 | 1C |
| 137 | 8.50 | 168.50 | Selects | 1C back | 10 | |
| 138 | 8.50 | 192.00 | Selects | 1C back | 11 | |
| 139 | 8.50 | 192.25 | Selects | 1C back | 11 | |
| 140 | 8.50 | 192.50 | Selects | 1C back | 11 | |
| 141 | 8.50 | 192.50 | Selects | Sound-back | 11 | |
| 142 | 8.50 | 192.75 | Selects | 1C back | 11 | |
| 143 | 8.75 | 96.50 | Selects | 1C back | 6 | |
| 144 | 8.75 | 96.75 | Selects | 1C back | 6 | |
| 145 | 8.75 | 120.75 | Selects | Sound-back | 7 | |
| 146 | 8.75 | 130.25 | Selects | 1C back | 7 | |
| 147 | 8.75 | 144.25 | Selects | 1C back | 9 | |
| 148 | 8.75 | 144.75 | Selects | 1C back | 9 | |
| 149 | 8.75 | 144.75 | Selects | 1C back | 9 | |
| 150 | 8.75 | 168.50 | Selects | Sound-back | 10 | |

(a) - When board surface measure is half-way between consecutive standard feet, the grade is determined with the smaller surface measure. Grades in this column are determined with the larger surface measure.

Table 11.--Board information report for Selects lumber

| Board number | Measured width (inches) | Length (inches) | Grade | Type of back face | Surface measure (feet) | Larger surf. measure grade (a) |
|---|---|---|---|---|---|---|
| 151 | 9.00 | 144.75 | Selects | 1C back | 9 | |
| 152 | 9.00 | 168.00 | Selects | 1C back | 10 or 11 | 1C |
| 153 | 9.00 | 192.50 | Selects | 1C back | 12 | |
| 154 | 9.00 | 192.75 | Selects | 1C back | 12 | |
| 155 | 9.25 | 119.25 | Selects | Sound-back | 7 | |
| 156 | 9.25 | 120.75 | Selects | 1C back | 8 | |
| 157 | 9.25 | 144.50 | Selects | Sound-back | 9 | |
| 158 | 9.25 | 144.50 | Selects | Sound-back | 9 | |
| 159 | 9.25 | 144.75 | Selects | Sound-back | 9 | |
| 160 | 9.25 | 168.75 | Selects | Sound-back | 11 | |
| 161 | 9.25 | 168.75 | Selects | 1C back | 11 | |
| 162 | 9.25 | 168.75 | Selects | 1C back | 11 | |
| 163 | 9.25 | 192.25 | Selects | 1C back | 12 | |
| 164 | 9.25 | 192.50 | Selects | 1C back | 12 | |
| 165 | 9.50 | 120.50 | Selects | 1C back | 8 | |
| 166 | 9.50 | 120.50 | Selects | 1C back | 8 | |
| 167 | 9.50 | 132.25 | Selects | 1C back | 9 | |
| 168 | 9.50 | 144.75 | Selects | 1C back | 9 or 10 | 1C |
| 169 | 9.50 | 164.50 | Selects | 1C back | 10 | |
| 170 | 9.50 | 168.75 | Selects | Sound-back | 11 | |
| 171 | 9.50 | 192.50 | Selects | 1C back | 13 | |
| 172 | 9.75 | 96.75 | Selects | Sound-back | 6 or 7 | 1C |
| 173 | 9.75 | 168.00 | Selects | 1C back | 11 | |
| 174 | 9.75 | 168.50 | Selects | 1C back | 11 | |
| 175 | 9.75 | 193.75 | Selects | 1C back | 13 | |
| 176 | 10.00 | 108.50 | Selects | Sound-back | 7 or 8 | Selects |
| 177 | 10.00 | 120.75 | Selects | Sound-back | 8 | |
| 178 | 10.00 | 120.75 | Selects | Sound-back | 8 | |
| 179 | 10.00 | 121.00 | Selects | 1C back | 8 | |
| 180 | 10.00 | 168.50 | Selects | 1C back | 12 | |
| 181 | 10.00 | 168.75 | Selects | 1C back | 12 | |
| 182 | 10.00 | 192.25 | Selects | 1C back | 13 | |
| 183 | 10.25 | 120.50 | Selects | 1C back | 9 | |
| 184 | 10.25 | 144.50 | Selects | 1C back | 10 | |
| 185 | 10.25 | 144.50 | Selects | 1C back | 10 | |
| 186 | 10.25 | 144.50 | Selects | Sound-back | 10 | |
| 187 | 10.25 | 168.50 | Selects | Sound-back | 12 | |
| 188 | 10.25 | 168.50 | Selects | 1C back | 12 | |
| 189 | 10.25 | 168.75 | Selects | 1C back | 12 | |
| 190 | 10.25 | 192.75 | Selects | 1C back | 14 | |
| 191 | 10.50 | 120.00 | Selects | 1C back | 9 | |
| 192 | 10.50 | 144.25 | Selects | 1C back | 10 or 11 | Selects |
| 193 | 10.50 | 168.50 | Selects | Sound-back | 12 | |
| 194 | 10.50 | 192.50 | Selects | Sound-back | 14 | |
| 195 | 10.50 | 192.50 | Selects | Sound-back | 14 | |
| 196 | 10.50 | 192.75 | Selects | 1C back | 14 | |
| 197 | 11.00 | 142.75 | Selects | 1C back | 10 | |
| 198 | 11.00 | 168.75 | Selects | Sound-back | 13 | |
| 199 | 11.25 | 97.50 | Selects | 1C back | 7 or 8 | Selects |
| 200 | 11.25 | 120.75 | Selects | 1C back | 9 | |

(a) - When board surface measure is half-way between consecutive standard feet, the grade is determined with the smaller surface measure. Grades in this column are determined with the larger surface measure.

Table 11.--Board information report for Selects lumber

| Board number | Measured width (inches) | Length (inches) | Grade | Type of back face | Surface measure (feet) | Larger surf. measure grade (a) |
|---|---|---|---|---|---|---|
| 201 | 11.25 | 121.00 | Selects | 1C back | 9 | |
| 202 | 11.50 | 120.00 | Selects | 1C back | 10 | |
| 203 | 11.75 | 144.75 | Selects | Sound-back | 12 | |
| 204 | 11.75 | 168.50 | Selects | Sound-back | 14 | |
| 205 | 12.00 | 120.75 | Selects | 1C back | 10 | |
| 206 | 12.25 | 120.50 | Selects | 1C back | 10 | |
| 207 | 12.25 | 168.75 | Selects | Sound-back | 14 | |
| 208 | 12.50 | 97.00 | Selects | 1C back | 8 | |
| 209 | 12.75 | 144.75 | selects | 1C back | 13 | |

(a) - When board surface measure is half-way between consecutive standard feet, the grade is determined with the smaller surface measure, Grades in this column are determined with the larger surface measure.

Table 12.--Board information report for No. 1 Common lumber

| Board number | Measured width (inches) | Length (inches) | Minimum grade (a) % S.M. & No. of cuttings | Minimum grade (a) Grade | Maximum grade (b) % S.M. & No. of cuttings | Maximum grade (b) Grade(c) | Surface measure (feet) | Larger surf. measure grade (d) |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.25 | 96.75 | 67-1 | 1CM | 79-2 | 1CP | 3 | |
| 2 | 4.50 | 145.00 | 89-2 | 1CP | 89-2 | 1CP | 4 or 5 | 1C |
| 3 | 4.50 | 156.00 | 70-2 | 1CM | 70-2 | 1CM | 5 | |
| 4 | 4.75 | 72.75 | 80-1 | 1CP | 80-1 | 1CP | 2 | |
| 5 | 4.75 | 73.00 | 86-1 | 1CP | 86-1 | 1CP | 2 | |
| 6 | 4.75 | 95.00 | 76-1 | 1CZ | 76-1 | 1CZR | 3 | |
| 7 | 4.75 | 95.00 | 71-1 | 1CM | 85-2 | 1CPR | 3 | |
| 8 | 4.75 | 96.75 | 90-2 | 1CP | 90-2 | 1CPR | 3 | |
| 9 | 4.75 | 97.00 | 77-1 | 1CZ | 80-2 | 1CPR | 3 | |
| 10 | 4.75 | 121.00 | 77-2 | 1CZ | 77-2 | 1CZ | 4 | |
| 11 | 4.75 | 144.75 | 79-3 | 1CP | 79-3 | 1CP | 5 | |
| 12 | 5.00 | 62.00 | 90-1 | 1CP | 90-1 | 1CPR | 2 | |
| 13 | 5.00 | 71.25 | 86-1 | 1CP | 86-1 | 1CPR | 2 | |
| 14 | 5.00 | 72.75 | 82-1 | 1CP | 82-1 | 1CP | 2 or 3 | 2A |
| 15 | 5.00 | 81.00 | 89-1 | 1CP | 91-1 | 1CP | 2 or 3 | 2A |
| 16 | 5.00 | 95.00 | 84-2 | 1CP | 84-2 | 1CPR | 3 | |
| 17 | 5.00 | 96.00 | 88-1 | 1CP | 102-2 | 1CPR | 3 | |
| 18 | 5.00 | 96.75 | 72-1 | 1CZ | 72-1 | 1CZ | 3 | |
| 19 | 5.00 | 97.50 | 77-1 | 1CZ | 93-2 | 1CPR | 3 | |
| 20 | 5.00 | 120.75 | 82-1 | 1CP | 87-2 | 1CPR | 4 | |
| 21 | 5.00 | 121.00 | 86-2 | 1CP | 86-2 | 1CPR | 4 | |
| 22 | 5.00 | 121.00 | 70-1 | 1CM | 70-1 | 1CMR | 4 | |
| 23 | 5.00 | 124.75 | 83-1 | 1CP | 83-1 | 1CP | 4 | |
| 24 | 5.00 | 144.75 | 68-2 | 1CM | 68-2 | 1CMR | 5 | |
| 25 | 5.00 | 145.00 | 72-1 | 1CZ | 79-2 | 1CPR | 5 | |
| 26 | 5.00 | 168.75 | 79-1 | 1CP | 86-3 | 1CPR | 6 | |
| 27 | 5.00 | 168.75 | 70-2 | 1CM | 78-3 | 1CZR | 6 | |
| 28 | 5.00 | 192.25 | 82-1 | 1CP | 88-2 | 1CP | 7 | |
| 29 | 5.25 | 57.00 | 89-1 | 1CP | 89-1 | 1CPR | 2 | |
| 30 | 5.25 | 60.00 | 84-1 | 1CP | 84-1 | 1CPR | 2 | |
| 31 | 5.25 | 72.00 | 91-1 | 1CP | 91-1 | 1CP | 3 | |
| 32 | 5.25 | 73.00 | 68-1 | 1CM | 68-1 | 1CM | 3 | |
| 33 | 5.25 | 86.00 | 80-1 | 1CP | 80-1 | 1CPR | 3 | |
| 34 | 5.25 | 87.25 | 72-1 | 1CZ | 72-1 | 1CZR | 3 | |
| 35 | 5.25 | 89.50 | 84-2 | 1CP | 84-2 | 1CPR | 3 | |
| 36 | 5.25 | 91.25 | 77-1 | 1CZ | 77-1 | 1CZ | 3 | |
| 37 | 5.25 | 96.25 | 70-1 | 1CM | 95-2 | 1CPR | 3 or 4 | 2A |
| 38 | 5.25 | 96.75 | 92-2 | 1CP | 92-2 | 1CP | 3 or 4 | 2A |
| 39 | 5.25 | 96.75 | 75-1 | 1CZ | 81-2 | 1CPR | 3 or 4 | 2A |
| 40 | 5.25 | 97.00 | 71-1 | 1CM | 94-2 | 1CP | 3 or 4 | 2A |
| 41 | 5.25 | 97.00 | 71-1 | 1 CM | 71-1 | 1CMR | 3 or 4 | 2A |
| 42 | 5.25 | 97.25 | 76-1 | 1CZ | 100-2 | 1CPR | 3 or 4 | 2A |
| 43 | 5.25 | 120.75 | 79-1 | 1CP | 97-3 | 1CP | 4 | |
| 44 | 5.25 | 121.00 | 84-1 | 1CP | 84-1 | 1CP | 4 | |
| 45 | 5.25 | 121.00 | 88-1 | 1CP | 88-1 | 1CP | 4 | |
| 46 | 5.25 | 121.00 | 75-2 | 1CZ | 75-2 | 1CZ | 4 | |
| 47 | 5.25 | 123.25 | 88-2 | 1CP | 88-2 | 1CP | 4 | |
| 48 | 5.25 | 144.00 | 69-2 | 1CM | 76-3 | 1CZ | 5 | |
| 49 | 5.25 | 145.00 | 76-3 | 1CZ | 76-3 | 1CZ | 5 | |
| 50 | 5.25 | 145.00 | 67-2 | 1CM | 84-3 | 1CP | 5 | |

(a) - Minimum grade as determined by ReGS (Realistic Grading System) is the first computer solution found that meets the minimum requirements of the grade.

(b) - Maximum NHLA. Graded by hand from a to-scale plot of the board. Contains all cuttings up to the maximum allowed for the grade. S.M. is surface measure.

(c) - "R" denotes a board from second and third saw mills.

(d) - When board surface measure Is half-way between consecutive standard feet, the minimum and maximum grades are determined with the smaller surface measure. Grades in this column are determined with the larger surface measure.

Table 12.--Board Information report for No. 1 Common lumber

| Board number | Measured width (inches) | Length (inches) | Minimum grade (a) % S.M. & No. of cuttings | Grade | Maximum grade (b) % S.M. No. of cuttings | Grade(c) | Surface measure (feet) | Larger surf. measure grade (d) |
|---|---|---|---|---|---|---|---|---|
| 51 | 5.25 | 145.00 | 78-2 | 1CZ | 92-3 | 1CPR | 5 | |
| 52 | 5.25 | 145.00 | 76-1 | 1CZ | 95-3 | 1CPR | 5 | |
| 53 | 5.25 | 168.50 | 79-2 | 1CP | 79-2 | 1CPR | 6 | |
| 54 | 5.25 | 168.50 | 80-2 | 1CP | 80-2 | 1CPR | 6 | |
| 55 | 5.25 | 168.75 | 78-2 | 1CZ | 95-3 | 1CP | 6 | |
| 56 | 5.25 | 168.75 | 73-2 | 1CZ | 78-3 | 1CZR | 6 | |
| 57 | 5.25 | 169.00 | 75-2 | 1CZ | 75-2 | 1CZ | 6 | |
| 58 | 5.50 | 61.50 | 84-1 | 1CP | 84-1 | 1CPR | 2 | |
| 59 | 5.50 | 72.00 | 77-2 | 1CZ | 77-2 | 1CZ | 3 | |
| 60 | 5.50 | 72.25 | 80-1 | 1CP | 80-1 | 1CP | 3 | |
| 61 | 5.50 | 72.25 | 67-1 | 1CM | 79-2 | 1CP | 3 | |
| 62 | 5.50 | 73.25 | 76-1 | 1CZ | 76-1 | 1CZ | 3 | |
| 63 | 5.50 | 73.50 | 67-1 | 1CM | 67-1 | 1CM | 3 | |
| 64 | 5.50 | 74.25 | 71-1 | 1CM | 82-2 | 1CP | 3 | |
| 65 | 5.50 | 74.75 | 67-1 | 1CM | 67-1 | 1CM | 3 | |
| 66 | 5.50 | 76.50 | 71-1 | 1CM | 71-1 | 1CM | 3 | |
| 67 | 5.50 | 78.75 | 78-2 | 1CZ | 78-2 | 1CZ | 3 | |
| 68 | 5.50 | 79.75 | 71-1 | 1CM | 71-1 | 1CM | 3 | |
| 69 | 5.50 | 84.00 | 79-2 | 1CP | 79-2 | 1CP | 3 | |
| 70 | 5.50 | 85.50 | 77-2 | 1CZ | 77-2 | 1CZ | 3 | |
| 71 | 5.50 | 87.00 | 86-2 | 1CP | 86-2 | 1CPR | 3 | |
| 72 | 5.50 | 87.00 | 78-2 | 1CZ | 78-2 | 1CZ | 3 | |
| 73 | 5.50 | 96.75 | 71-1 | 1CM | 71-1 | 1CM | 4 | |
| 74 | 5.50 | 97.00 | 67-1 | 1CM | 80-2 | 1CP | 4 | |
| 75 | 5.50 | 120.75 | 76-2 | 1CZ | 76-2 | 1CZ | 5 | |
| 76 | 5.50 | 120.75 | 69-1 | 1CM | 80-3 | 1CP | 5 | |
| 77 | 5.50 | 120.75 | 67-2 | 1CM | 71-2 | 1CMR | 5 | |
| 78 | 5.50 | 121.00 | 79-2 | 1CP | 79-2 | 1CPR | 5 | |
| 79 | 5.50 | 121.00 | 68-2 | 1CM | 68-2 | 1CM | 5 | |
| 80 | 5.50 | 121.00 | 69-2 | 1CM | 69-2 | 1CM | 5 | |
| 81 | 5.50 | 121.00 | 67-2 | 1CZ | 67-2 | 1CMR | 5 | |
| 82 | 5.50 | 121.75 | 71-2 | 1CM | 71-2 | 1CM | 5 | |
| 83 | 5.50 | 121.75 | 69-2 | 1CM | 80-2 | 1CP | 5 | |
| 84 | 5.50 | 122.50 | 69-2 | 1CM | 69-2 | 1CMR | 5 | |
| 85 | 5.50 | 126.00 | 78-3 | 1CZ | 78-3 | 1CZ | 5 | |
| 86 | 5.50 | 134.75 | 72-2 | 1CZ | 78-2 | 1CZ | 5 | |
| 87 | 5.50 | 143.25 | 82-2 | 1CP | 86-3 | 1CP | 5 | |
| 88 | 5.50 | 143.25 | 88-1 | 1CP | 88-1 | 1CP | 5 | |
| 89 | 5.50 | 144.00 | 83-2 | 1CP | 83-2 | 1CP | 5 or 6 | 1C |
| 90 | 5.50 | 144.50 | 82-2 | 1CP | 87-3 | 1CP | 5 or 6 | 1C |
| 91 | 5.50 | 144.75 | 71-2 | 1CM | 71-2 | 1CMR | 5 or 6 | 2A |
| 92 | 5.50 | 144.75 | 76-1 | 1CZ | 76-1 | 1CZR | 5 or 6 | 1C |
| 93 | 5.50 | 145.00 | 74-2 | 1CZ | 74-2 | 1CZ | 5 or 6 | 2A |
| 94 | 5.50 | 145.00 | 70-1 | 1CM | 70-1 | 1CMR | 5 or 6 | 2A |
| 95 | 5.50 | 145.00 | 84-2 | 1CP | 84-2 | 1CP | 5 or 6 | 1C |
| 96 | 5.50 | 145.00 | 93-2 | 1CP | 93-2 | 1CPR | 5 or 6 | 1C |
| 97 | 5.50 | 145.00 | 68-2 | 1CM | 68-2 | 1CM | 5 or 6 | 2A |
| 98 | 5.50 | 145.00 | 89-2 | 1CP | 89-2 | 1CP | 5 or 6 | 1C |
| 99 | 5.50 | 145.00 | 72-2 | 1CZ | 72-2 | 1CZ | 5 or 6 | 2A |
| 100 | 5.50 | 145.00 | 83-3 | 1CP | 83-3 | 1CP | 5 or 6 | 2A |

(a) - Minimum grade as determined by ReGS (Realistic Grading System) is the first computer solution found that meets the minimum requirements of the grade.

(b) - Maximum NHLA. Graded by hand from a to-scale plot of the board. Contains all cuttings up to the maximum allowed for the grade. S.M. is surface measure.

(c) - “R” denotes a board from second and third saw mills.

(d) - When board surface measure is half-way between consecutive standard feet, the minimum and maximum grades are determined with the smaller surface measure. Grades in this column are determined with the larger surface measure.

Table 12.--Board information report for No. 1 Common lumber

| Board number | Measured width (inches) | Length (inches) | Minimum grade (a) % S.M. & No. of cuttings | Grade | Maximum grade (b) % S.M. & No. of cuttings | Grade(c) | Surface measure (feet) | Larger surf. measure grade (d) |
|---|---|---|---|---|---|---|---|---|
| 101 | 5.50 | 145.25 | 96-2 | 1CP | 96-2 | 1CP | 5 or 6 | 1C |
| 102 | 5.50 | 146.50 | 95-2 | 1CP | 95-2 | 1CP | 5 or 6 | 1C |
| 103 | 5.50 | 146.50 | 71-2 | 1CM | 81-3 | 1CP | 5 or 6 | 2A |
| 104 | 5.50 | 161.00 | 77-3 | 1CZ | 77-3 | 1CZ | 6 | |
| 105 | 5.50 | 168.50 | 77-1 | 1CZ | 89-3 | 1CPR | 6 | |
| 106 | 5.50 | 168.75 | 71-2 | 1CM | 79-3 | 1CP | 6 | |
| 107 | 5.50 | 169.25 | 69-2 | 1CM | 86-3 | 1CP | 6 | |
| 108 | 5.50 | 169.25 | 83-3 | 1CP | 83-3 | 1CP | 6 | |
| 109 | 5.50 | 169.25 | 77-2 | 1CZ | 77-2 | 1CZ | 6 | |
| 110 | 5.50 | 169.25 | 67-2 | 1CM | 67-2 | 1CM | 6 | |
| 111 | 5.50 | 170.50 | 79-2 | 1CP | 91-3 | 1CPR | 6 | |
| 112 | 5.50 | 173.00 | 74-1 | 1CZ | 80-3 | 1CP | 6 | |
| 113 | 5.50 | 192.25 | 68-2 | 1CM | 99-3 | 1CP | 7 | |
| 114 | 5.50 | 192.50 | 75-3 | 1CZ | 75-3 | 1CZR | 7 | |
| 115 | 5.50 | 192.50 | 84-3 | 1CP | 84-3 | 1CPR | 7 | |
| 116 | 5.50 | 192.75 | 75-1 | 1CZ | 93-3 | 1CP | 7 | |
| 117 | 5.50 | 192.75 | 75-1 | 1CZ | 82-2 | 1CPR | 7 | |
| 118 | 5.50 | 193.50 | 80-3 | 1CP | 80-3 | 1CP | 7 | |
| 119 | 5.50 | 193.50 | 68-2 | 1CM | 68-2 | 1CM | 7 | |
| 120 | 5.50 | 193.75 | 77-2 | 1CZ | 88-3 | 1CP | 7 | |
| 121 | 5.75 | 53.50 | 83-1 | 1CP | 83-1 | 1CPR | 2 | |
| 122 | 5.75 | 73.00 | 73-1 | 1CZ | 82-2 | 1CPR | 3 | |
| 123 | 5.75 | 77.75 | 75-1 | 1CZ | 75-1 | 1CZR | 3 | |
| 124 | 5.75 | 79.50 | 67-1 | 1CM | 67-1 | 1CMR | 3 | |
| 125 | 5.75 | 80.00 | 81-2 | 1CP | 89-2 | 1CP | 3 | |
| 126 | 5.75 | 84.00 | 72-1 | 1CZ | 72-1 | 1CZR | 3 | |
| 127 | 5.75 | 84.00 | 73-1 | 1CZ | 73-1 | 1CZR | 3 | |
| 128 | 5.75 | 86.25 | 75-2 | 1CZ | 88-2 | 1CPR | 3 | |
| 129 | 5.75 | 95.00 | 93-1 | 1CP | 105-2 | 1CPR | 3 | |
| 130 | 5.75 | 120.50 | 67-2 | 1CM | 67-2 | 1CM | 5 | |
| 131 | 5.75 | 120.75 | 69-2 | 1CM | 69-2 | 1CM | 5 | |
| 132 | 5.75 | 120.75 | 83-2 | 1CP | 83-2 | 1CPR | 5 | |
| 133 | 5.75 | 120.75 | 68-2 | 1CM | 68-2 | 1CM | 5 | |
| 134 | 5.75 | 120.75 | 70-2 | 1CM | 70-2 | 1CM | 5 | |
| 135 | 5.75 | 121.00 | 70-1 | 1CM | 70-1 | 1CMR | 5 | |
| 136 | 5.75 | 121.00 | 72-2 | 1CZ | 78-3 | 1CZR | 5 | |
| 137 | 5.75 | 121.50 | 83-2 | 1CP | 83-2 | 1CP | 5 | |
| 138 | 5.75 | 121.75 | 69-2 | 1CM | 69-2 | 1CM | 5 | |
| 139 | 5.75 | 123.25 | 78-2 | 1CZ | 85-2 | 1CP | 5 | |
| 140 | 5.75 | 132.00 | 78-2 | 1CZ | 78-2 | 1CZR | 5 | |
| 141 | 5.75 | 132.25 | 92-1 | 1CP | 92-1 | 1CP | 5 | |
| 142 | 5.75 | 139.75 | 76-3 | 1CZ | 76-3 | 1CZ | 5 | |
| 143 | 5.75 | 144.75 | 72-2 | 1CZ | 72-2 | 1CZ | 6 | |
| 144 | 5.75 | 144.75 | 68-1 | 1CM | 84-3 | 1CP | 6 | |
| 145 | 5.75 | 144.75 | 67-1 | 1CM | 89-3 | 1CP | 6 | |
| 146 | 5.75 | 145.00 | 76-3 | 1CZ | 76-3 | 1CZ | 6 | |
| 147 | 5.75 | 145.00 | 71-2 | 1CM | 71-2 | 1 CM | 6 | |
| 148 | 5.75 | 145.00 | 79-3 | 1CP | 79-3 | 1CPR | 6 | |
| 149 | 5.75 | 145.00 | 71-2 | 1CM | 71-2 | 1CMR | 6 | |
| 150 | 5.75 | 145.00 | 67-2 | 1CM | 67-2 | 1CM | 6 | |

(a) - Minimum grade as determined by ReGS (Realistic Grading System) is the first computer solution found that meets the minimum requirements of the grade.

(b) - Maximum NHLA. Graded by hand from a to-scale plot of the board. Contains all cuttings up to the maximum allowed for the grade. S.M. is surface measure.

(c) - “R” denotes a board from second and third saw mills.

(d) - When board surface measure is half-way between consecutive standard feet, the minimum and maximum grades are determined with the smeller surface measure. Grades in this column are determined with the larger surface measure.

Table 12.--Board information report for No. 1 Common lumber

| Board number | Measured width (inches) | Length (inches) | Minimum grade (a) % S.M. & No. of cuttings | Minimum grade (a) Grade | Maximum grade (b) % S.M.& No. of cuttings | Maximum grade (b) Grade(c) | Surface measure (feet) | Larger surf. measure grade (d) |
|---|---|---|---|---|---|---|---|---|
| 151 | 5.75 | 145.00 | 67-2 | 1CM | 75-2 | 1CZR | 6 | |
| 152 | 5.75 | 145.50 | 79-2 | 1CP | 84-3 | 1CP | 6 | |
| 153 | 5.75 | 168.50 | 77-2 | 1CZ | 77-2 | 1CZR | 7 | |
| 154 | 5.75 | 168.50 | 84-1 | 1CP | 84-1 | 1CP | 7 | |
| 155 | 5.75 | 168.75 | 73-2 | 1CZ | 73-2 | 1CZR | 7 | |
| 156 | 5.75 | 168.75 | 74-2 | 1CZ | 81-3 | 1CPR | 7 | |
| 157 | 5.75 | 192.50 | 68-2 | 1CM | 68-2 | 1CMR | 8 | |
| 158 | 5.75 | 192.50 | 74-3 | 1CZ | 80-4 | 1CPR | 8 | |
| 159 | 5.75 | 192.75 | 68-3 | 1CM | 68-3 | 1CM | 8 | |
| 160 | 5.75 | 192.75 | 78-2 | 1CZ | 78-2 | 1CZ | 8 | |
| 161 | 5.75 | 193.50 | 71-3 | 1CM | 74-3 | 1CZ | 8 | |
| 162 | 5.75 | 193.50 | 78-2 | 1CZ | 82-3 | 1CP | 8 | |
| 163 | 5.75 | 193.75 | 74-2 | 1CZ | 88-3 | 1CP | 8 | |
| 164 | 6.00 | 51.00 | 88-1 | 1CP | 88-1 | 1CPR | 2 | |
| 165 | 6.00 | 55.25 | 98-1 | 1CP | 98-1 | 1CPR | 2 | |
| 166 | 6.00 | 72.00 | 77-2 | 1CZ | 77-2 | 1CZ | 3 | |
| 167 | 6.00 | 74.25 | 71-1 | 1CM | 71-1 | 1CMR | 3 | |
| 168 | 6.00 | 77.00 | 79-2 | 1CP | 88-2 | 1CPR | 3 | |
| 169 | 6.00 | 79.50 | 78-2 | 1CZ | 90-2 | 1CPR | 3 | |
| 170 | 6.00 | 80.00 | 76-1 | 1CZ | 97-2 | 1CPR | 3 | |
| 171 | 6.00 | 80.50 | 70-1 | 1CM | 70-1 | 1CM | 3 | |
| 172 | 6.00 | 84.00 | 80-1 | 1CP | 80-1 | 1CP | 3 or 4 | 1C |
| 173 | 6.00 | 84.00 | 83-1 | 1CP | 83-1 | 1CP | 3 or 4 | 1C |
| 174 | 6.00 | 95.25 | 70-1 | 1CM | 75-2 | 1CZ | 3 or 4 | 2A |
| 175 | 6.00 | 97.00 | 72-1 | 1CZ | 72-1 | 1CZR | 4 | |
| 176 | 6.00 | 97.00 | 67-1 | 1CM | 91-2 | 1CPR | 4 | |
| 177 | 6.00 | 97.00 | 79-2 | 1CP | 79-2 | 1CPR | 4 | |
| 178 | 6.00 | 98.00 | 74-1 | 1CZ | 89-2 | 1CP | 4 | |
| 179 | 6.00 | 99.00 | 74-1 | 1CZ | 74-1 | 1CZ | 4 | |
| 180 | 6.00 | 108.00 | 77-2 | 1CZ | 77-2 | 1CZ | 4 or 5 | 2A |
| 181 | 6.00 | 120.25 | 72-2 | 1CZ | 80-3 | 1CP | 5 | |
| 182 | 6.00 | 120.75 | 75-2 | 1CZ | 75-2 | 1CZR | 5 | |
| 183 | 6.00 | 120.75 | 73-2 | 1CZ | 77-3 | 1CZR | 5 | |
| 184 | 6.00 | 120.75 | 83-2 | 1CP | 83-2 | 1CPR | 5 | |
| 185 | 6.00 | 120.75 | 70-2 | 1CM | 93-2 | 1CP | 5 | |
| 186 | 6.00 | 120.75 | 73-2 | 1CZ | 73-2 | 1CZR | 5 | |
| 187 | 6.00 | 120.75 | 78-2 | 1CZ | 78-2 | 1CZ | 5 | |
| 188 | 6.00 | 121.00 | 85-3 | 1CP | 85-3 | 1CP | 5 | |
| 189 | 6.00 | 121.00 | 69-2 | 1CM | 69-2 | 1CM | 5 | |
| 190 | 6.00 | 138.25 | 76-2 | 1CZ | 90-3 | 1CPR | 5 or 6 | 2A |
| 191 | 6.00 | 144.75 | 76-2 | 1CZ | 76-2 | 1CZR | 6 | |
| 192 | 6.00 | 144.75 | 78-3 | 1CZ | 78-3 | 1CZ | 6 | |
| 193 | 6.00 | 144.75 | 70-2 | 1CM | 88-3 | 1CP | 6 | |
| 194 | 6.00 | 145.00 | 86-2 | 1CP | 89-3 | 1CPR | 6 | |
| 195 | 6.00 | 145.00 | 73-2 | 1CZ | 73-2 | 1CZR | 6 | |
| 196 | 6.00 | 145.00 | 73-2 | 1CZ | 73-2 | 1CZ | 6 | |
| 197 | 6.00 | 145.00 | 72-2 | 1CZ | 76-3 | 1CZR | 6 | |
| 198 | 6.00 | 145.25 | 67-1 | 1CM | 67-1 | 1CM | 6 | |
| 199 | 6.00 | 145.25 | 68-2 | 1CM | 76-3 | 1CZ | 6 | |
| 200 | 6.00 | 168.75 | 67-3 | 1CM | 81-3 | 1CPR | 7 | |

(a) - Minimum grade as determined by ReGS (Realistic Grading System) is the first computer solution found that meets the minimum requirements of the grade.

(b) - Maximum NHLA. Graded by hand from a to-scale plot of the board. Contains all cuttings up to the maximum allowed for the grade. S.M. is surface measure.

(c) - "R" denotes a board from second and third saw mills.

(d) - When board surface measure is half-way between consecutive standard feet, the minimum and maximum grades are determined with the smaller surface measure. Grades in this column are determined with the larger surface measure.

Table 12.--Board information report for No. 1 Common lumber

| Board number | Measured width (inches) | Length (inches) | Minimum grade (a) % S.M. & No. of cuttings | Grade | Maximum grade (b) % S.M. & No. of cuttings | Grade(c) | Surface measure (feet) | Larger surf. measure grade (d) |
|---|---|---|---|---|---|---|---|---|
| 201 | 6.00 | 192.25 | 73-2 | 1CZ | 86-4 | 1CPR | 8 | |
| 202 | 6.00 | 192.50 | 67-3 | 1CM | 84-4 | 1CPR | 8 | |
| 203 | 6.00 | 192.50 | 67-3 | 1CM | 78-4 | 1CZR | 8 | |
| 204 | 6.00 | 192.50 | 74-3 | 1CZ | 80-4 | 1CPR | 8 | |
| 205 | 6.25 | 51.50 | 79-1 | 1CP | 79-1 | 1CP | 2 | |
| 206 | 6.25 | 58.50 | 91-1 | 1CP | 91-1 | 1CPR | 2 | |
| 207 | 6.25 | 67.75 | 84-1 | 1CP | 84-1 | 1CPR | 3 | |
| 208 | 6.25 | 72.00 | 71-1 | 1CM | 85-2 | 1CPR | 3 | |
| 209 | 6.25 | 72.25 | 82-2 | 1CP | 82-2 | 1CP | 3 | |
| 210 | 6.25 | 72.50 | 82-2 | 1CP | 82-2 | 1CPR | 3 | |
| 211 | 6.25 | 73.00 | 71-1 | 1CM | 71-1 | 1CM | 3 | |
| 212 | 6.25 | 73.25 | 77-2 | 1CZ | 92-2 | 1CPR | 3 | |
| 213 | 6.25 | 74.25 | 75-1 | 1CZ | 75-1 | 1CZR | 3 | |
| 214 | 6.25 | 78.75 | 87-2 | 1CP | 87-2 | 1CP | 3 | |
| 215 | 6.25 | 97.00 | 75-2 | 1CZ | 75-2 | 1CZ | 4 | |
| 216 | 6.25 | 97.00 | 75-2 | 1CZ | 75-2 | 1CZR | 4 | |
| 217 | 6.25 | 97.00 | 73-1 | 1CZ | 87-2 | 1CPR | 4 | |
| 218 | 6.25 | 120.50 | 81-1 | 1CP | 91-2 | 1CP | 5 | |
| 219 | 6.25 | 120.75 | 68-2 | 1CM | 68-2 | 1CMR | 5 | |
| 220 | 6.25 | 120.75 | 74-2 | 1CZ | 84-3 | 1CP | 5 | |
| 221 | 6.25 | 120.75 | 72-2 | 1CZ | 89-3 | 1CPR | 5 | |
| 222 | 6.25 | 121.00 | 68-2 | 1CM | 76-3 | 1CZ | 5 | |
| 223 | 6.25 | 121.00 | 78-3 | 1CZ | 78-3 | 1CZ | 5 | |
| 224 | 6.25 | 121.00 | 76-1 | 1CZ | 98-3 | 1CPR | 5 | |
| 225 | 6.25 | 121.00 | 67-2 | 1CM | 67-2 | 1CM | 5 | |
| 226 | 6.25 | 121.00 | 70-2 | 1CM | 87-3 | 1CPR | 5 | |
| 227 | 6.25 | 122.00 | 77-2 | 1CZ | 84-3 | 1CPR | 5 | |
| 228 | 6.25 | 142.50 | 75-1 | 1CZ | 85-2 | 1CP | 6 | |
| 229 | 6.25 | 144.25 | 83-2 | 1CP | 99-3 | 1CP | 6 | |
| 230 | 6.25 | 144.75 | 78-3 | 1CZ | 82-3 | 1CP | 6 | |
| 231 | 6.25 | 145.00 | 67-2 | 1CM | 67-2 | 1CMR | 6 | |
| 232 | 6.25 | 168.50 | 76-2 | 1CZ | 83-3 | 1CPR | 7 | |
| 233 | 6.25 | 168.50 | 71-2 | 1CM | 82-3 | 1CPR | 7 | |
| 234 | 6.25 | 168.75 | 75-3 | 1CZ | 75-3 | 1CZR | 7 | |
| 235 | 6.25 | 192.75 | 69-2 | 1CM | 83-3 | 1CPR | 8 | |
| 236 | 6.25 | 192.75 | 69-3 | 1CM | 81-4 | 1CPR | 8 | |
| 237 | 6.50 | 72.00 | 71-1 | 1 CM | 71-1 | 1CM | 3 | |
| 238 | 6.50 | 74.50 | 84-1 | 1CP | 84-1 | 1CP | 3 | |
| 239 | 6.50 | 76.75 | 80-2 | 1CP | 80-2 | 1CP | 3 | |
| 240 | 6.50 | 84.00 | 77-1 | 1CZ | 82-2 | 1CP | 4 | |
| 241 | 6.50 | 86.00 | 75-1 | 1CZ | 75-1 | 1CZ | 4 | |
| 242 | 6.50 | 93.25 | 84-1 | 1CP | 89-2 | 1CP | 4 | |
| 243 | 6.50 | 97.00 | 81-2 | 1CP | 81-2 | 1CPR | 4 | |
| 244 | 6.50 | 109.25 | 67-2 | 1CM | 67-2 | 1CM | 5 | |
| 245 | 6.50 | 120.75 | 76-2 | 1CZ | 76-2 | 1CZ | 5 | |
| 246 | 6.50 | 121.00 | 68-2 | 1CM | 80-2 | 1CPR | 5 | |
| 247 | 6.50 | 121.25 | 70-2 | 1 CM | 70-2 | 1CM | 5 | |
| 248 | 6.50 | 126.00 | 74-1 | 1CZ | 85-3 | 1CP | 5 | |
| 249 | 6.50 | 130.00 | 71-2 | 1CM | 71-2 | 1CMR | 5 | |
| 250 | 6.50 | 132.00 | 68-2 | 1CM | 81-3 | 1CP | 6 | |

(a) - Minimum grade as determined by ReGS (Realistic Grading System) is the first computer solution found that meets the minimum requirement of the grade.

(b) - Maximum NHLA. Graded by hand from a to-scale plot of the board. Contains all cuttings up to the maximum allowed for the grade. S.M. is surface measure.

(c) - “R” denotes a board from second and third saw mills.

(d) - When board surface measure is half-way between consecutive standard feet, the minimum and maximum grades are determined with the smeller surface measure. Grades in this column are determined with the larger surface measure.

Table 12.--Board information report for No. 1 Common lumber

| Board number | Measured width (inches) | Length (inches) | Minimum grade (a) % S.M. & No. of cuttings | Minimum grade (a) Grade | Maximum grade (b) % S.M. & No. of cuttings | Maximum grade (b) Grade(c) | Surface measure (feet) | Larger surf. measure grade (d) |
|---|---|---|---|---|---|---|---|---|
| 251 | 6.50 | 143.00 | 76-3 | 1CZ | 89-3 | 1CPR | 6 | |
| 252 | 6.50 | 144.25 | 81-3 | 1CP | 81-3 | 1CP | 6 or 7 | 2A |
| 253 | 6.50 | 145.00 | 91-2 | 1CP | 91-2 | 1CP | 6 or 7 | 2A |
| 254 | 6.50 | 145.00 | 73-2 | 1CZ | 85-3 | 1CPR | 6 or 7 | 2A |
| 255 | 6.50 | 168.75 | 69-2 | 1CM | 80-4 | 1CPR | 8 | |
| 256 | 6.50 | 192.75 | 67-3 | 1CM | 79-4 | 1CP | 9 | |
| 257 | 6.75 | 62.25 | 75-2 | 1CZ | 75-2 | 1CZ | 3 | |
| 258 | 6.75 | 62.25 | 71-1 | 1CM | 83-2 | 1CPR | 3 | |
| 259 | 6.75 | 72.25 | 76-1 | 1CZ | 96-2 | 1CP | 3 | |
| 260 | 6.75 | 73.00 | 84-2 | 1CP | 84-2 | 1CP | 3 | |
| 261 | 6.75 | 96.25 | 80-2 | 1CP | 80-2 | 1CP | 4 or 5 | 2A |
| 262 | 6.75 | 96.75 | 77-2 | 1CZ | 77-2 | 1CZ | 4 or 5 | 2A |
| 263 | 6.75 | 96.75 | 78-2 | 1CZ | 81-2 | 1CP | 4 or 5 | 1C |
| 264 | 6.75 | 97.00 | 77-2 | 1CZ | 77-2 | 1CZ | 4 or 5 | 2A |
| 265 | 6.75 | 97.00 | 70-1 | 1CM | 86-2 | 1CPR | 4 or 5 | 1C |
| 266 | 6.75 | 97.00 | 85-1 | 1CP | 85-1 | 1CPR | 4 or 5 | 1C |
| 267 | 6.75 | 101.00 | 74-1 | 1CZ | 86-2 | 1CP | 4 or 5 | 1C |
| 268 | 6.75 | 109.50 | 67-2 | 1CM | 72-2 | 1CZR | 5 | |
| 269 | 6.75 | 117.50 | 70-2 | 1CM | 81-2 | 1CPR | 5 | |
| 270 | 6.75 | 144.50 | 72-2 | 1CZ | 76-3 | 1CZR | 7 | |
| 271 | 6.75 | 144.75 | 79-2 | 1CP | 91-3 | 1CPR | 7 | |
| 272 | 6.75 | 144.75 | 81-2 | 1CP | 85-3 | 1CP | 7 | |
| 273 | 6.75 | 145.00 | 69-2 | 1CM | 80-3 | 1CPR | 7 | |
| 274 | 6.75 | 145.00 | 68-1 | 1CM | 86-2 | 1CPR | 7 | |
| 275 | 6.75 | 145.00 | 76-2 | 1CZ | 83-2 | 1CPR | 7 | |
| 276 | 6.75 | 168.75 | 70-1 | 1CM | 84-3 | 1CP | 8 | |
| 277 | 6.75 | 168.75 | 76-2 | 1CZ | 76-2 | 1CZR | 8 | |
| 278 | 6.75 | 168.75 | 70-2 | 1CM | 77-3 | 1CZR | 8 | |
| 279 | 6.75 | 173.25 | 68-3 | 1CM | 79-4 | 1CPR | 8 | |
| 280 | 6.75 | 192.50 | 68-3 | 1CM | 76-3 | 1CZR | 9 | |
| 281 | 6.75 | 192.50 | 74-3 | 1CZ | 86-4 | 1CP | 9 | |
| 282 | 6.75 | 193.25 | 78-2 | 1CZ | 83-3 | 1CP | 9 | |
| 283 | 7.00 | 50.50 | 81-1 | 1CP | 81-1 | 1CP | 2 | |
| 284 | 7.00 | 51.00 | 106-1 | 1CP | 106-1 | 1CP | 2 | |
| 285 | 7.00 | 66.25 | 74-1 | 1CZ | 74-1 | 1CZR | 3 | |
| 286 | 7.00 | 71.25 | 88-1 | 1CP | 88-1 | 1CPR | 3 | |
| 287 | 7.00 | 73.00 | 80-1 | 1CP | 85-2 | 1CP | 3 or 4 | 1C |
| 288 | 7.00 | 73.25 | 83-1 | 1CP | 83-1 | 1CPR | 3 or 4 | 2A |
| 289 | 7.00 | 96.25 | 69-2 | 1CM | 77-3 | 1CZ | 5 | |
| 290 | 7.00 | 96.50 | 68-2 | 1CM | 68-2 | 1CM | 5 | |
| 291 | 7.00 | 96.75 | 78-3 | 1CZ | 78-3 | 1CZ | 5 | |
| 292 | 7.00 | 97.00 | 78-3 | 1CZ | 78-3 | 1CZ | 5 | |
| 293 | 7.00 | 97.50 | 74-2 | 1CZ | 74-2 | 1CZ | 5 | |
| 294 | 7.00 | 118.00 | 81-2 | 1CP | 81-2 | 1CP | 5 | |
| 295 | 7.00 | 120.75 | 75-2 | 1CZ | 75-2 | 1CZR | 6 | |
| 296 | 7.00 | 130.75 | 74-2 | 1CZ | 82-3 | 1CPR | 6 | |
| 297 | 7.00 | 144.75 | 74-2 | 1CZ | 86-3 | 1CPR | 7 | |
| 298 | 7.00 | 145.00 | 75-3 | 1CZ | 83-3 | 1CPR | 7 | |
| 299 | 7.00 | 145.00 | 80-2 | 1CP | 80-2 | 1CP | 7 | |
| 300 | 7.00 | 145.00 | 70-2 | 1CM | 93-3 | 1CPR | 7 | |

(a) - Minimum grade as determined by ReGS (Realistic Grading System) is the first computer solution found that meets the minimum requirements of the grade.

(b) - Maximum NHLA. Graded by hand from a to-scale plot of the board. Contains all cuttings up to the maximum allowed for the grade. S.M. is surface measure.

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Table 12.--Board information report for No. 1 Common lumber

| Board number | Measured width (inches) | Length (inches) | Minimum grade (a) % S.M. & No. of cuttings | Grade | Maximum grade (b) % S.M. & No. of cuttings | Grade(c) | Surface measure (feet) | Larger surf. measure grade (d) |
|---|---|---|---|---|---|---|---|---|
| 301 | 7.00 | 145.25 | 69-2 | 1CM | 79-3 | 1CP | 7 | |
| 302 | 7.00 | 192.50 | 70-3 | 1CM | 81-4 | 1CPR | 9 | |
| 303 | 7.00 | 192.75 | 70-2 | 1CM | 84-4 | 1CPR | 9 | |
| 304 | 7.25 | 48.00 | 97-1 | 1CP | 97-1 | 1CP | 2 | |
| 305 | 7.25 | 61.00 | 76-1 | 1CZ | 76-1 | 1CZR | 3 | |
| 306 | 7.25 | 62.25 | 72-1 | 1CZ | 89-2 | 1CPR | 3 | |
| 307 | 7.25 | 72.75 | 74-1 | 1CZ | 74-1 | 1CZ | 4 | |
| 308 | 7.25 | 73.00 | 79-1 | 1CP | 84-2 | 1CP | 4 | |
| 309 | 7.25 | 73.50 | 75-1 | 1CZ | 80-2 | 1CP | 4 | |
| 310 | 7.25 | 96.25 | 74-2 | 1CZ | 77-2 | 1CZ | 5 | |
| 311 | 7.25 | 97.00 | 71-2 | 1CM | 71-2 | 1CM | 5 | |
| 312 | 7.25 | 108.50 | 76-2 | 1CZ | 76-2 | 1CZR | 5 | |
| 313 | 7.25 | 109.00 | 90-2 | 1CP | 90-2 | 1CPR | 5 | |
| 314 | 7.25 | 117.75 | 72-2 | 1CZ | 72-2 | 1CZ | 5 | |
| 315 | 7.25 | 119.25 | 70-2 | 1CM | 70-2 | 1CM | 5 | |
| 316 | 7.25 | 120.75 | 67-1 | 1CM | 79-3 | 1CP | 6 | |
| 317 | 7.25 | 120.75 | 83-2 | 1CP | 83-2 | 1CPR | 6 | |
| 318 | 7.25 | 121.00 | 72-2 | 1CZ | 76-3 | 1CZR | 6 | |
| 319 | 7.25 | 121.00 | 67-2 | 1CM | 67-2 | 1CM | 6 | |
| 320 | 7.25 | 144.50 | 71-2 | 1CM | 91-3 | 1CP | 7 | |
| 321 | 7.25 | 145.00 | 80-3 | 1CP | 80-3 | 1CPR | 7 | |
| 322 | 7.25 | 145.25 | 75-3 | 1CZ | 75-3 | 1CZ | 7 | |
| 323 | 7.25 | 146.25 | 70-2 | 1 CM | 70-2 | 1CM | 7 | |
| 324 | 7.25 | 169.00 | 67-2 | 1CM | 79-4 | 1CP | 8 | |
| 325 | 7.25 | 192.50 | 72-1 | 1CZ | 90-3 | 1CP | 10 | |
| 326 | 7.25 | 192.50 | 77-3 | 1CZ | 77-3 | 1CZR | 10 | |
| 327 | 7.25 | 193.25 | 67-3 | 1CM | 77-4 | 1CZ | 10 | |
| 328 | 7.25 | 193.25 | 77-4 | 1CZ | 77-4 | 1CZ | 10 | |
| 329 | 7.25 | 193.50 | 71-3 | 1CM | 78-4 | 1CZ | 10 | |
| 330 | 7.50 | 75.00 | 80-2 | 1CP | 80-2 | 1CP | 4 | |
| 331 | 7.50 | 96.75 | 76-3 | 1CZ | 76-3 | 1CZ | 5 | |
| 332 | 7.50 | 97.00 | 72-2 | 1CZ | 72-2 | 1CZR | 5 | |
| 333 | 7.50 | 97.00 | 70-2 | 1CM | 70-2 | 1CM | 5 | |
| 334 | 7.50 | 97.00 | 82-2 | 1CP | 82-2 | 1CPR | 5 | |
| 335 | 7.50 | 97.50 | 78-1 | 1CZ | 81-2 | 1CP | 5 | |
| 336 | 7.50 | 101.75 | 80-2 | 1CP | 87-3 | 1CPR | 5 | |
| 337 | 7.50 | 108.00 | 71-2 | 1CM | 71-2 | 1CM | 6 | |
| 338 | 7.50 | 108.75 | 77-2 | 1CZ | 82-3 | 1CP | 6 | |
| 339 | 7.50 | 120.25 | 77-3 | 1CZ | 77-3 | 1CZ | 6 | |
| 340 | 7.50 | 120.50 | 69-2 | 1CM | 69-2 | 1CM | 6 | |
| 341 | 7.50 | 120.75 | 74-2 | 1CZ | 74-2 | 1CZR | 6 | |
| 342 | 7.50 | 121.00 | 77-3 | 1CZ | 77-3 | 1CZR | 6 | |
| 343 | 7.50 | 121.00 | 68-2 | 1CM | 76-3 | 1CZR | 6 | |
| 344 | 7.50 | 121.00 | 70-2 | 1CM | 77-3 | 1CZ | 6 | |
| 345 | 7.50 | 121.00 | 69-2 | 1CM | 69-2 | 1CM | 6 | |
| 346 | 7.50 | 124.75 | 67-2 | 1CM | 84-3 | 1CP | 6 | |
| 347 | 7.50 | 144.50 | 81-2 | 1CP | 81-2 | 1CP | 7 or 8 | 1C |
| 348 | 7.50 | 145.00 | 75-2 | 1CZ | 75-2 | 1CZ | 7 or 8 | 2A |
| 349 | 7.50 | 145.00 | 71-2 | 1CM | 78-3 | 1CZR | 7 or 8 | 1C |
| 350 | 7.50 | 167.25 | 71-3 | 1CM | 75-4 | 1CZR | 8 | |

(a) - Minimum grade as determined by ReGS (Realistic Grading System) is the first computer solution found that meets the minimum requirements of the grade.

(b) - Maximum NHLA. Graded by hand from a to-scale plot of the board. Contains all cuttings up to the maximum allowed for the grade. S.M. is surface measure.

(c) - "R" denotes a board from second and third saw mills.

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Table 12.--Board information report for No. 1 Common lumber

| Board number | Measured width (inches) | Length (inches) | Minimum grade (a) % S.M. & No. of cuttings | Minimum grade (a) Grade | Maximum grade (b) % S.M. & No. of cuttings | Maximum grade (b) Grade(c) | Surface measure (feet) | Larger surf. measure grade (d) |
|---|---|---|---|---|---|---|---|---|
| 351 | 7.50 | 168.25 | 79-2 | 1CP | 79-2 | 1CP | 9 | |
| 352 | 7.50 | 169.00 | 68-3 | 1CM | 75-4 | 1CZ | 9 | |
| 353 | 7.50 | 169.00 | 70-3 | 1CM | 70-3 | 1CM | 9 | |
| 354 | 7.50 | 169.25 | 67-3 | 1CM | 71-4 | 1CM | 9 | |
| 355 | 7.50 | 169.50 | 73-3 | 1CZ | 77-4 | 1CZ | 9 | |
| 356 | 7.75 | 50.00 | 68-1 | 1CM | 68-1 | 1CM | 3 | |
| 357 | 7.75 | 50.75 | 72-1 | 1CZ | 79-2 | 1CP | 3 | |
| 358 | 7.75 | 62.50 | 76-2 | 1CZ | 76-2 | 1CZ | 3 | |
| 359 | 7.75 | 72.75 | 74-1 | 1CZ | 74-1 | 1CZ | 4 | |
| 360 | 7.75 | 73.00 | 89-2 | 1CP | 89-2 | 1CPR | 4 | |
| 361 | 7.75 | 74.25 | 75-2 | 1CZ | 75-2 | 1CZ | 4 | |
| 362 | 7.75 | 77.00 | 85-2 | 1CP | 85-2 | 1CPR | 4 | |
| 363 | 7.75 | 96.75 | 72-2 | 1CZ | 83-3 | 1CP | 5 | |
| 364 | 7.75 | 97.00 | 71-2 | 1CM | 84-3 | 1CPR | 5 | |
| 365 | 7.75 | 97.00 | 73-2 | 1CZ | 82-3 | 1CPR | 5 | |
| 366 | 7.75 | 97.00 | 67-2 | 1CM | 89-3 | 1CPR | 5 | |
| 367 | 7.75 | 105.00 | 80-3 | 1CP | 80-3 | 1CP | 5 | |
| 368 | 7.75 | 105.00 | 74-1 | 1CZ | 86-2 | 1CP | 5 | |
| 369 | 7.75 | 111.25 | 72-1 | 1CZ | 72-1 | 1CZR | 6 | |
| 370 | 7.75 | 115.25 | 68-2 | 1CM | 86-3 | 1CP | 6 | |
| 371 | 7.75 | 115.25 | 68-2 | 1CM | 84-3 | 1CP | 6 | |
| 372 | 7.75 | 120.25 | 68-2 | 1CM | 71-3 | 1CM | 6 | |
| 373 | 7.75 | 120.25 | 69-2 | 1CM | 81-3 | 1CP | 6 | |
| 374 | 7.75 | 120.50 | 80-2 | 1CP | 92-3 | 1CP | 6 | |
| 375 | 7.75 | 120.75 | 68-2 | 1CM | 79-3 | 1CP | 6 | |
| 376 | 7.75 | 120.75 | 67-2 | 1CM | 77-3 | 1CZ | 6 | |
| 377 | 7.75 | 145.00 | 67-3 | 1CM | 77-4 | 1CZ | 8 | |
| 378 | 7.75 | 145.00 | 67-2 | 1CM | 83-3 | 1CP | 8 | |
| 379 | 7.75 | 159.00 | 69-3 | 1CM | 80-4 | 1CP | 8 | |
| 380 | 7.75 | 168.50 | 70-2 | 1CM | 96-3 | 1CP | 9 | |
| 381 | 7.75 | 168.50 | 84-2 | 1CP | 88-3 | 1CP | 9 | |
| 382 | 7.75 | 169.25 | 67-2 | 1CM | 72-3 | 1CZ | 9 | |
| 383 | 7.75 | 192.75 | 67-3 | 1CM | 67-3 | 1CM | 10 | |
| 384 | 8.00 | 62.25 | 90-1 | 1CP | 90-1 | 1CPR | 3 | |
| 385 | 8.00 | 69.75 | 69-1 | 1CM | 69-1 | 1CM | 3 | |
| 386 | 8.00 | 72.00 | 69-1 | 1CM | 69-1 | 1CM | 4 | |
| 387 | 8.00 | 75.25 | 85-2 | 1CP | 85-2 | 1CP | 4 | |
| 388 | 8.00 | 96.00 | 69-2 | 1CM | 69-2 | 1CM | 5 | |
| 389 | 8.00 | 96.50 | 69-2 | 1CM | 69-2 | 1CM | 5 | |
| 390 | 8.00 | 96.50 | 80-1 | 1CP | 80-1 | 1CP | 5 | |
| 391 | 8.00 | 96.75 | 68-2 | 1CM | 68-2 | 1 CM | 5 | |
| 392 | 8.00 | 97.00 | 68-1 | 1CM | 88-2 | 1CPR | 5 | |
| 393 | 8.00 | 97.50 | 71-2 | 1CM | 82-3 | 1CP | 5 | |
| 394 | 8.00 | 98.50 | 71-2 | 1CM | 71-2 | 1 CM | 5 | |
| 395 | 8.00 | 99.50 | 77-1 | 1CZ | 82-2 | 1CP | 5 | |
| 396 | 8.00 | 108.00 | 68-2 | 1CM | 68-2 | 1 CM | 6 | |
| 397 | 8.00 | 116.50 | 70-2 | 1CM | 82-3 | 1CPR | 6 | |
| 398 | 8.00 | 118.00 | 81-1 | 1CP | 91-3 | 1CP | 6 | |
| 399 | 8.00 | 120.75 | 68-2 | 1CM | 81-3 | 1CP | 7 | |
| 400 | 8.00 | 141.25 | 80-3 | 1CP | 80-3 | 1CP | 7 | |

(a) - Minimum grade as determined by ReGS (Realistic Grading System) is the first computer solution found that meets the minimum requirements of the grade.

(b) - Maximum NHLA. Graded by hand from a to-scale plot of the board. Contains all cuttings up to the maximum allowed for the grade. S.M. is surface measure.

(c) - "R" denotes a board from second and third saw mills.

(d) - When board surface measure is half-way between consecutive standard feet, the minimum and maximum grades are determined with the smaller surface measure. Grades in this column are determined with the larger surface measure.

Table 12.--Board information report for No. 1 Common lumber

| Board number | Measured width (inches) | Length (inches) | Minimum grade (a) % S.M. & No. of cuttings | Grade | Maximum grade (b) % S.M. & No. of cuttings | Grade(c) | Surface measure (feet) | Larger surf. measure grade (d) |
|---|---|---|---|---|---|---|---|---|
| 401 | 8.00 | 145.00 | 68-2 | 1CM | 77-3 | 1CZR | 8 | |
| 402 | 8.00 | 145.25 | 67-3 | 1CM | 78-3 | 1CZ | 8 | |
| 403 | 8.00 | 192.50 | 67-3 | 1CM | 71-4 | 1CMR | 11 | |
| 404 | 8.00 | 192.50 | 70-2 | 1CM | 82-4 | 1CP | 11 | |
| 405 | 8.00 | 193.00 | 75-2 | 1CZ | 85-3 | 1CP | 11 | |
| 406 | 8.25 | 49.50 | 72-1 | 1CZ | 72-1 | 1CZ | 3 | |
| 407 | 8.25 | 52.00 | 76-2 | 1CZ | 82-2 | 1CP | 3 | |
| 408 | 8.25 | 67.50 | 80-2 | 1CP | 80-2 | 1CP | 3 | |
| 409 | 8.25 | 72.75 | 80-2 | 1CP | 80-2 | 1CP | 4 | |
| 410 | 8.25 | 73.00 | 79-2 | 1CP | 79-2 | 1CPR | 4 | |
| 411 | 8.25 | 82.75 | 69-1 | 1CM | 81-2 | 1CPR | 4 | |
| 412 | 8.25 | 97.00 | 67-2 | 1CM | 67-2 | 1CM | 5 or 6 | 2A |
| 413 | 8.25 | 97.00 | 70-2 | 1CM | 70-2 | 1CM | 5 or 6 | 2A |
| 414 | 8.25 | 120.75 | 67-2 | 1CM | 89-3 | 1CP | 7 | |
| 415 | 8.25 | 120.75 | 81-1 | 1CP | 97-2 | 1CP | 7 | |
| 416 | 8.25 | 144.00 | 69-2 | 1CM | 69-2 | 1CM | 8 | |
| 417 | 8.25 | 144.00 | 76-2 | 1CZ | 82-3 | 1CP | 8 | |
| 418 | 8.25 | 144.75 | 75-3 | 1CZ | 75-3 | 1CZ | 8 | |
| 419 | 8.25 | 145.00 | 75-3 | 1CZ | 75-3 | 1CZ | 8 | |
| 420 | 8.25 | 169.00 | 69-3 | 1CM | 76-4 | 1CZ | 10 | |
| 421 | 8.25 | 189.75 | 67-3 | 1CM | 84-4 | 1CP | 10 | |
| 422 | 8.25 | 192.50 | 67-4 | 1CM | 73-4 | 1CZ | 11 | |
| 423 | 8.25 | 193.25 | 76-2 | 1CZ | 84-4 | 1CP | 11 | |
| 424 | 8.50 | 62.75 | 69-1 | 1CM | 69-1 | 1CM | 4 | |
| 425 | 8.50 | 73.00 | 84-2 | 1CP | 84-2 | 1CP | 4 | |
| 426 | 8.50 | 86.00 | 69-2 | 1CM | 69-2 | 1CMR | 5 | |
| 427 | 8.50 | 96.50 | 74-1 | 1CZ | 79-2 | 1CP | 6 | |
| 428 | 8.50 | 96.75 | 68-2 | 1CM | 68-2 | 1 CM | 6 | |
| 429 | 8.50 | 97.00 | 71-2 | 1CM | 71-2 | 1CMR | 6 | |
| 430 | 8.50 | 97.00 | 67-2 | 1CM | 73-2 | 1CZR | 6 | |
| 431 | 8.50 | 97.75 | 68-2 | 1CM | 68-2 | 1CMR | 6 | |
| 432 | 8.50 | 120.75 | 75-3 | 1CZ | 75-3 | 1CZ | 7 | |
| 433 | 8.50 | 132.75 | 67-2 | 1CM | 90-3 | 1CP | 8 | |
| 434 | 8.50 | 169.50 | 68-2 | 1CM | 82-3 | 1CP | 10 | |
| 435 | 8.50 | 192.50 | 67-3 | 1CM | 67-3 | 1CMR | 11 | |
| 436 | 8.50 | 192.75 | 74-3 | 1CZ | 88-4 | 1CPR | 11 | |
| 437 | 8.75 | 61.50 | 67-1 | 1CM | 67-1 | 1CM | 4 | |
| 438 | 8.75 | 96.25 | 67-2 | 1CM | 75-3 | 1CZ | 6 | |
| 439 | 8.75 | 96.75 | 69-2 | 1CM | 79-3 | 1CP | 6 | |
| 440 | 8.75 | 97.00 | 67-2 | 1CM | 67-2 | 1CM | 6 | |
| 441 | 8.75 | 97.25 | 67-2 | 1CM | 80-3 | 1CP | 6 | |
| 442 | 8.75 | 120.75 | 75-2 | 1CZ | 87-3 | 1CP | 7 | |
| 443 | 8.75 | 121.00 | 74-2 | 1CZ | 83-3 | 1CP | 7 | |
| 444 | 8.75 | 121.00 | 77-1 | 1CZ | 86-2 | 1CP | 7 | |
| 445 | 9.00 | 52.25 | 68-1 | 1CM | 79-2 | 1CP | 3 | |
| 446 | 9.00 | 96.50 | 71-1 | 1CM | 78-2 | 1CZ | 6 | |
| 447 | 9.00 | 96.75 | 70-2 | 1CM | 70-2 | 1CM | 6 | |
| 448 | 9.00 | 145.25 | 69-3 | 1CM | 69-3 | 1CM | 9 | |
| 449 | 9.00 | 145.50 | 73-2 | 1CZ | 83-3 | 1CP | 9 | |
| 450 | 9.00 | 150.50 | 72-3 | 1CZ | 79-4 | 1CP | 9 | |

(a) - Minimum grade as determined by ReGS (Realistic Grading System) is the first computer solution found that meets the minimum requirements of the grade.

(b) - Maximum NHLA. Graded by hand from a to-scale plot of the board. Contains all cuttings up to the maximum allowed for the grade. S.M. is surface measure.

(c) - “R” denotes a board from second and third saw mills.

(d) - When board surface measure is half-way between consecutive standard feet, the minimum and maximum grades are determined with the smaller surface measure. Grades in this column are determined with the larger surface measure.

Table 12.--Board information report for No. 1 Common lumber

| Board number | Measured width (inches) | Length (inches) | Minimum grade (a) % S.M. & No. of cuttings | Minimum grade (a) Grade | Maximum grade (b) % S.M. & No. of cuttings | Maximum grade (b) Grade(c) | Surface measure (feet) | Larger surf. measure grade (d) |
|---|---|---|---|---|---|---|---|---|
| 451 | 9.00 | 169.75 | 69-3 | 1CM | 80-4 | 1CP | 10 or 11 | 1C |
| 452 | 9.00 | 192.25 | 68-2 | 1CM | 89-4 | 1CPR | 12 | |
| 453 | 9.00 | 193.00 | 72-4 | 1CZ | 72-4 | 1CZ | 12 | |
| 454 | 9.25 | 72.00 | 68-1 | 1CM | 68-1 | 1CM | 5 | |
| 455 | 9.25 | 97.00 | 72-2 | 1CZ | 85-3 | 1CPR | 6 | |
| 456 | 9.25 | 99.25 | 76-3 | 1CZ | 76-3 | 1CZ | 6 | |
| 457 | 9.25 | 120.00 | 72-1 | 1CZ | 78-3 | 1CZ | 8 | |
| 458 | 9.25 | 120.75 | 67-3 | 1CM | 67-3 | 1CM | 8 | |
| 459 | 9.25 | 121.75 | 67-3 | 1CM | 75-4 | 1CZ | 8 | |
| 460 | 9.25 | 145.25 | 67-2 | 1CM | 78-4 | 1CZ | 9 | |
| 461 | 9.25 | 145.25 | 68-3 | 1CM | 68-3 | 1CM | 9 | |
| 462 | 9.25 | 169.00 | 69-4 | 1CM | 69-4 | 1CM | 11 | |
| 463 | 9.25 | 169.25 | 67-4 | 1CM | 67-4 | 1CM | 11 | |
| 464 | 9.25 | 169.50 | 75-3 | 1CZ | 75-3 | 1CZ | 11 | |
| 465 | 9.25 | 169.75 | 76-2 | 1CZ | 84-4 | 1CP | 11 | |
| 466 | 9.25 | 170.00 | 71-3 | 1CM | 74-4 | 1CZ | 11 | |
| 467 | 9.25 | 170.75 | 68-3 | 1CM | 75-4 | 1CZ | 11 | |
| 468 | 9.25 | 193.25 | 73-4 | 1CZ | 73-4 | 1CZ | 12 | |
| 469 | 9.50 | 50.75 | 76-1 | 1CZ | 82-2 | 1CP | 3 | |
| 470 | 9.50 | 84.00 | 70-1 | 1CM | 81-2 | 1CP | 6 | |
| 471 | 9.50 | 96.50 | 67-1 | 1CM | 76-3 | 1CZ | 6 | |
| 472 | 9.50 | 97.25 | 76-3 | 1CZ | 76-3 | 1CZ | 6 | |
| 473 | 9.50 | 97.25 | 68-3 | 1CM | 68-2 | 1CM | 6 | |
| 474 | 9.50 | 97.75 | 67-2 | 1CM | 77-3 | 1CZ | 6 | |
| 475 | 9.50 | 98.50 | 75-2 | 1CZ | 87-3 | 1CP | 6 | |
| 476 | 9.50 | 120.25 | 69-2 | 1CM | 80-3 | 1CP | 8 | |
| 477 | 9.50 | 121.50 | 68-3 | 1CM | 68-3 | 1CM | 8 | |
| 478 | 9.50 | 121.50 | 71-3 | 1 CM | 71-3 | 1CM | 8 | |
| 479 | 9.50 | 121.50 | 69-2 | 1CM | 86-3 | 1CP | 8 | |
| 480 | 9.50 | 144.50 | 73-2 | 1CZ | 95-4 | 1CP | 9 or 10 | 1C |
| 481 | 9.50 | 145.00 | 72-2 | 1CZ | 81-4 | 1CP | 9 or 10 | 1C |
| 482 | 9.50 | 145.25 | 72-2 | 1CZ | 74-3 | 1CZ | 9 or 10 | 1C |
| 483 | 9.50 | 168.75 | 68-2 | 1CM | 90-4 | 1CP | 11 | |
| 484 | 9.50 | 169.00 | 75-3 | 1CZ | 83-4 | 1CP | 11 | |
| 485 | 9.50 | 169.25 | 68-3 | 1CM | 68-3 | 1CM | 11 | |
| 486 | 9.50 | 192.50 | 67-4 | 1CM | 67-4 | 1CMR | 13 | |
| 487 | 9.75 | 72.00 | 70-2 | 1CM | 77-3 | 1CZ | 5 | |
| 488 | 9.75 | 75.25 | 77-1 | 1CZ | 90-2 | 1CP | 5 | |
| 489 | 9.75 | 96.50 | 76-3 | 1CZ | 76-3 | 1CZ | 6 or 7 | 2A |
| 490 | 9.75 | 120.75 | 72-2 | 1CZ | 94-4 | 1CP | 8 | |
| 491 | 9.75 | 121.00 | 68-3 | 1CM | 75-4 | 1CZR | 8 | |
| 492 | 9.75 | 121.25 | 68-3 | 1CM | 68-3 | 1CM | 8 | |
| 493 | 9.75 | 121.75 | 67-3 | 1CM | 67-3 | 1CM | 8 | |
| 494 | 9.75 | 144.75 | 69-2 | 1CM | 75-3 | 1CZ | 10 | |
| 495 | 9.75 | 145.25 | 72-3 | 1CZ | 72-3 | 1CZ | 10 | |
| 496 | 9.75 | 145.50 | 69-3 | 1CM | 77-4 | 1CZ | 10 | |
| 497 | 9.75 | 168.75 | 73-3 | 1CZ | 73-3 | 1CZR | 11 | |
| 498 | 9.75 | 168.75 | 80-3 | 1CP | 80-3 | 1CPR | 11 | |
| 499 | 9.75 | 169.00 | 77-3 | 1CZ | 81-4 | 1CP | 11 | |
| 500 | 9.75 | 169.50 | 67-3 | 1 CM | 74-4 | 1Cz | 11 | |

(a) - Minimum grade as determined by ReGS (Realistic Grading System) is the first computer solution found that meets the minimum requirements of the grade.

(b) - Maximum NHLA. Graded by hand from a to-scale plot of the board. Contains all cuttings up to the maximum allowed for the grade. S.M. is surface measure.

(c) - "R" denotes a board from second and third saw mills.

(d) - When board surface measure is half-way between consecutive standard feet, the minimum and maximum grades are determined with the smeller surface measure. Grades in this column are determined with the larger surface measure.

Table 12.--Board information report for No. 1 Common lumber

| Board number | Measured width (inches) | Length (inches) | Minimum grade (a) % S.M. & No. of cuttings | Minimum grade (a) Grade | Maximum grade (b) % S.M. & No. of cuttings | Maximum grade (b) Grade(c) | Surface measure (feet) | Larger surf. measure grade (d) |
|---|---|---|---|---|---|---|---|---|
| 501 | 9.75 | 169.75 | 69-3 | 1CM | 69-3 | 1CM | 11 | |
| 502 | 9.75 | 192.75 | 72-1 | 1CZ | 89-4 | 1CP | 13 | |
| 503 | 9.75 | 192.75 | 70-3 | 1CM | 75-4 | 1CZR | 13 | |
| 504 | 10.00 | 48.00 | 67-1 | 1CM | 67-1 | 1CM | 3 | |
| 505 | 10.00 | 48.00 | 85-1 | 1CP | 92-2 | 1CP | 3 | |
| 506 | 10.00 | 72.75 | 67-2 | 1CM | 67-2 | 1CM | 5 | |
| 507 | 10.00 | 73.25 | 68-2 | 1CM | 76-2 | 1CZ | 5 | |
| 508 | 10.00 | 74.75 | 71-1 | 1CM | 71-1 | 1CM | 5 | |
| 509 | 10.00 | 96.00 | 76-2 | 1CZ | 76-2 | 1CZ | 7 | |
| 510 | 10.00 | 96.25 | 68-2 | 1CM | 68-2 | 1CM | 7 | |
| 511 | 10.00 | 120.25 | 76-2 | 1CZ | 80-3 | 1CP | 8 | |
| 512 | 10.00 | 120.50 | 68-3 | 1CM | 68-3 | 1CM | 8 | |
| 513 | 10.00 | 121.50 | 69-3 | 1CM | 69-3 | 1CM | 8 | |
| 514 | 10.00 | 121.50 | 72-3 | 1CZ | 72-3 | 1CZ | 8 | |
| 515 | 10.00 | 121.75 | 72-2 | 1CZ | 72-2 | 1CZ | 8 | |
| 516 | 10.00 | 144.75 | 73-2 | 1CZ | 93-4 | 1CP | 10 | |
| 517 | 10.00 | 168.50 | 72-2 | 1CZ | 88-4 | 1CP | 12 | |
| 518 | 10.00 | 169.75 | 68-3 | 1CM | 76-3 | 1CZ | 12 | |
| 519 | 10.25 | 94.50 | 77-3 | 1CZ | 77-3 | 1CZ | 6 | |
| 520 | 10.25 | 96.50 | 84-2 | 1CP | 84-2 | 1CP | 7 | |
| 521 | 10.25 | 97.25 | 69-2 | 1CM | 84-1 | 1CPR | 7 | |
| 522 | 10.25 | 121.00 | 68-3 | 1CM | 76-4 | 1CZ | 9 | |
| 523 | 10.25 | 121.75 | 81-2 | 1CP | 81-2 | 1CP | 9 | |
| 524 | 10.25 | 144.75 | 68-3 | 1CM | 75-4 | 1CZ | 10 | |
| 525 | 10.25 | 144.75 | 88-2 | 1CP | 97-4 | 1CP | 10 | |
| 526 | 10.25 | 193.50 | 73-5 | 1CZ | 81-5 | 1CP | 14 | |
| 527 | 10.50 | 96.50 | 68-2 | 1CM | 68-2 | 1CM | 7 | |
| 528 | 10.50 | 97.50 | 74-2 | 1CZ | 74-2 | 1CZ | 7 | |
| 529 | 10.50 | 120.00 | 69-3 | 1CM | 78-4 | 1CZ | 9 | |
| 530 | 10.50 | 120.50 | 68-3 | 1CM | 78-4 | 1CZ | 9 | |
| 531 | 10.50 | 144.75 | 67-3 | 1CM | 67-3 | 1CM | 10 or 11 | 2A |
| 532 | 10.50 | 144.75 | 74-1 | 1CZ | 88-4 | 1CP | 10 or 11 | 1C |
| 533 | 10.50 | 169.00 | 67-3 | 1CM | 72-4 | 1CZ | 12 | |
| 534 | 10.50 | 193.00 | 69-4 | 1CM | 72-5 | 1CZ | 14 | |
| 535 | 10.75 | 55.75 | 72-2 | 1CZ | 72-2 | 1CZ | 4 | |
| 536 | 10.75 | 94.75 | 69-2 | 1CM | 80-3 | 1CP | 6 | |
| 537 | 10.75 | 96.00 | 67-1 | 1CM | 79-2 | 1CP | 7 | |
| 538 | 10.75 | 97.50 | 72-2 | 1CZ | 72-2 | 1CZ | 7 | |
| 539 | 10.75 | 97.50 | 77-3 | 1CZ | 84-3 | 1CP | 7 | |
| 540 | 10.75 | 97.75 | 74-2 | 1CZ | 74-2 | 1CZ | 7 | |
| 541 | 10.75 | 120.75 | 71-3 | 1CM | 82-4 | 1CP | 9 | |
| 542 | 10.75 | 121.50 | 67-3 | 1CM | 84-4 | 1CP | 9 | |
| 543 | 10.75 | 168.25 | 68-3 | 1CM | 77-4 | 1CZ | 13 | |
| 544 | 11.00 | 48.75 | 71-1 | 1CM | 81-2 | 1CP | 4 | |
| 545 | 11.00 | 120.50 | 72-2 | 1CZ | 82-3 | 1CP | 9 | |
| 546 | 11.00 | 120.50 | 74-2 | 1CZ | 74-2 | 1CZ | 9 | |
| 547 | 11.00 | 120.75 | 67-3 | 1 CM | 67-3 | 1CM | 9 | |
| 548 | 11.00 | 121.50 | 67-3 | 1CM | 67-3 | 1CM | 9 | |
| 549 | 11.00 | 145.50 | 73-3 | 1CZ | 73-3 | 1CZ | 11 | |
| 550 | 11.00 | 168.50 | 69-2 | 1CM | 82-4 | 1CP | 13 | |

(a) - Minimum grade as determined by ReGS (Realistic Grading System) is the first computer solution found that meets the minimum requirements of the grade.

(b) - Maximum NHLA. Graded by hand from a to-scale plot of the board. Contains all cuttings up to the maximum allowed for the grade. S.M. is surface measure.

(c) - “R” denotes a board from second and third sawmills.

(d) - When board surface measure is half-way between consecutive standard feet, the minimum and maximum grades are determined with the smeller surface measure. Grades in this column are determined with the larger surface measure.

Table 12.--Board information report for No. 1 Common lumber

| Board number | Measured width (inches) | Length (inches) | Minimum grade (a) % S.M. & No. of cuttings | Minimum grade (a) Grade | Maximum grade (b) % S.M. & No. of cuttings | Maximum grade (b) Grade(c) | Surface measure (feet) | Larger surf. measure grade (d) |
|---|---|---|---|---|---|---|---|---|
| 551 | 11.00 | 169.75 | 68-3 | 1 CM | 75-4 | 1CZ | 13 | |
| 552 | 11.25 | 73.00 | 72-1 | 1CZ | 72-1 | 1CZR | 6 | |
| 553 | 11.25 | 73.00 | 69-2 | 1CM | 79-2 | 1CPR | 6 | |
| 554 | 11.25 | 95.25 | 69-2 | 1CM | 73-2 | 1CZ | 7 | |
| 555 | 11.25 | 122.75 | 72-3 | 1CZ | 81-4 | 1CP | 9 | |
| 556 | 11.25 | 144.00 | 71-2 | 1CM | 84-4 | 1CP | 11 | |
| 557 | 11.25 | 168.25 | 71-3 | 1CM | 77-4 | 1CZ | 13 | |
| 558 | 11.25 | 169.50 | 89-2 | 1CP | 91-4 | 1CP | 13 | |
| 559 | 11.50 | 120.25 | 70-3 | 1CM | 76-4 | 1CZ | 10 | |
| 560 | 11.50 | 120.75 | 77-2 | 1CZ | 77-2 | 1CZ | 10 | |
| 561 | 11.50 | 168.50 | 72-3 | 1CZ | 86-4 | 1CP | 13 | |
| 562 | 11.50 | 193.25 | 69-2 | 1CM | 84-5 | 1CP | 15 | |
| 563 | 11.50 | 193.50 | 67-3 | 1CM | 68-4 | 1CM | 15 | |
| 564 | 11.75 | 96.00 | 69-3 | 1CM | 69-3 | 1CM | 8 | |
| 565 | 11.75 | 96.50 | 68-2 | 1CM | 74-3 | 1CZ | 8 | |
| 566 | 11.75 | 115.50 | 70-3 | 1CM | 79-4 | 1CPR | 9 | |
| 567 | 11.75 | 120.75 | 67-3 | 1CM | 76-4 | 1CZ | 10 | |
| 568 | 11.75 | 121.50 | 67-3 | 1CM | 67-3 | 1CM | 10 | |
| 569 | 11.75 | 192.25 | 67-2 | 1CM | 86-5 | 1CP | 16 | |
| 570 | 11.75 | 193.00 | 67-2 | 1CM | 75-5 | 1CZ | 16 | |
| 571 | 11.75 | 193.25 | 74-2 | 1CZ | 80-4 | 1CP | 16 | |
| 572 | 12.00 | 92.00 | 68-2 | 1CM | 68-2 | 1CM | 7 | |
| 573 | 12.00 | 96.50 | 67-3 | 1CM | 73-3 | 1CZ | 8 | |
| 574 | 12.00 | 145.00 | 71-3 | 1CM | 77-4 | 1CZ | 12 | |
| 575 | 12.00 | 145.50 | 83-2 | 1CP | 83-2 | 1CP | 12 | |
| 576 | 12.25 | 96.00 | 76-2 | 1CZ | 76-2 | 1CZ | 8 | |
| 577 | 12.25 | 109.25 | 68-3 | 1CM | 68-3 | 1 CM | 9 | |
| 578 | 12.25 | 145.25 | 67-3 | 1CM | 78-4 | 1CZ | 12 | |
| 579 | 12.25 | 145.25 | 69-4 | 1CM | 69-4 | 1CM | 12 | |
| 580 | 12.25 | 168.75 | 71-1 | 1CM | 81-5 | 1CP | 14 | |
| 581 | 12.50 | 121.50 | 77-2 | 1CZ | 88-3 | 1CP | 10 | |
| 582 | 12.50 | 121.50 | 67-3 | 1CM | 76-4 | 1CZ | 10 | |
| 583 | 12.50 | 144.75 | 73-3 | 1CZ | 83-4 | 1CP | 12 or 13 | 1C |
| 584 | 12.50 | 145.25 | 74-3 | 1CZ | 74-3 | 1CZ | 12 or 13 | 1C |
| 585 | 12.50 | 169.25 | 69-5 | 1CM | 77-5 | 1CZ | 15 | |
| 586 | 12.75 | 51.50 | 82-1 | 1CP | 82-1 | 1CP | 4 | |
| 587 | 12.75 | 96.50 | 69-3 | 1CM | 69-3 | 1CM | 8 or 9 | 2A |
| 588 | 12.75 | 144.00 | 70-3 | 1CM | 70-3 | 1CM | 13 | |
| 589 | 12.75 | 169.25 | 69-3 | 1CM | 77-5 | 1CZ | 15 | |
| 590 | 13.00 | 108.00 | 76-2 | 1CZ | 79-3 | 1CP | 10 | |
| 591 | 13.00 | 145.00 | 67-3 | 1CM | 72-3 | 1CZ | 13 | |

(a) - Minimum grade as determined by ReGS (Realistic Grading System) is the first computer solution found that meets the minimum requirements of the grade.

(b) - Maximum NHLA. Graded by hand from a to-scale plot of the board. Contains all cuttings up to the maximum allowed for the grade. S.M. is surface measure.

(c) - “R” denotes a board from second and third saw mills.

(d) - When board surface measure is half-way between consecutive standard feet, the minimum and maximum grades are determined with the smaller surface measure. Grades in this column are determined with the larger surface measure.

Table 13.--Board information report for No. 2A Common lumber

| Board number | Measured width (inches) | Length (inches) | Minimum grade (a) % S.M. & No. of cuttings | Grade | Maximum grade (b) % S.M. & No. of cuttings | Grade(c) | Surface measure (feet) | Larger surf. measure grade (d) |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.00 | 96.75 | 51-1 | 2CM | 63-2 | 2CP | 3 | |
| 2 | 4.25 | 96.75 | 64-1 | 2CP | 64-1 | 2CP | 3 | |
| 3 | 4.25 | 122.75 | 68-2 | 2CP | 68-2 | 2CP | 4 | |
| 4 | 4.50 | 87.00 | 59-1 | 2CZ | 59-1 | 2CZR | 3 | |
| 5 | 4.50 | 168.75 | 59-2 | 2CZ | 59-2 | 2CZR | 5 | |
| 6 | 4.50 | 192.75 | 62-2 | 2CP | 65-3 | 2CPR | 6 | |
| 7 | 4.75 | 71.25 | 69-1 | 2CP | 69-1 | 2CPR | 2 | |
| 8 | 4.75 | 120.75 | 62-1 | 2CP | 84-3 | 2CPR | 4 | |
| 9 | 4.75 | 121.00 | 68-2 | 2CP | 68-2 | 2CPR | 4 | |
| 10 | 4.75 | 121.00 | 58-1 | 2CZ | 74-3 | 2CPR | 4 | |
| 11 | 4.75 | 168.75 | 54-2 | 2CM | 69-3 | 2CPR | 6 | |
| 12 | 4.75 | 180.50 | 61-2 | 2CZ | 61-2 | 2CZR | 6 | |
| 13 | 4.75 | 192.50 | 52-3 | 2CM | 65-4 | 2CPR | 6 | |
| 14 | 4.75 | 192.75 | 58-2 | 2CZ | 65-3 | 2CPR | 6 | |
| 15 | 5.00 | 72.00 | 71-1 | 2CP | 71-1 | 2CPR | 2 or 3 | 3A |
| 16 | 5.00 | 96.75 | 60-1 | 2CZ | 60-1 | 2CZ | 3 | |
| 17 | 5.00 | 120.75 | 62-1 | 2CP | 64-2 | 2CPR | 4 | |
| 18 | 5.00 | 121.00 | 59-2 | 2CZ | 59-2 | 2CZR | 4 | |
| 19 | 5.00 | 121.00 | 66-2 | 2CP | 66-2 | 2CP | 4 | |
| 20 | 5.00 | 143.00 | 52-2 | 2CM | 73-3 | 2CPR | 5 | |
| 21 | 5.00 | 144.75 | 51-2 | 2CM | 65-3 | 2CPR | 5 | |
| 22 | 5.00 | 144.75 | 62-2 | 2CP | 62-2 | 2CPR | 5 | |
| 23 | 5.00 | 144.75 | 52-2 | 2CM | 52-2 | 2CMR | 5 | |
| 24 | 5.00 | 145.00 | 56-2 | 2CZ | 56-2 | 2CZR | 5 | |
| 25 | 5.00 | 145.00 | 52-1 | 2CM | 60-2 | 2CZR | 5 | |
| 26 | 5.00 | 168.25 | 61-2 | 2CZ | 61-2 | 2CZ | 6 | |
| 27 | 5.00 | 179.25 | 52-2 | 2CM | 67-3 | 2CPR | 6 | |
| 28 | 5.00 | 192.75 | 50-2 | 2CM | 60-3 | 2CZR | 7 | |
| 29 | 5.25 | 73.50 | 69-2 | 2CP | 69-2 | 2CP | 3 | |
| 30 | 5.25 | 88.25 | 55-1 | 2CZ | 79-2 | 2CPR | 3 | |
| 31 | 5.25 | 97.25 | 72-2 | 2CP | 72-2 | 2CPR | 3 or 4 | 2A |
| 32 | 5.25 | 120.50 | 55-1 | 2CZ | 83-3 | 2CPR | 4 | |
| 33 | 5.25 | 120.75 | 63-1 | 2CP | 73-2 | 2CPR | 4 | |
| 34 | 5.25 | 120.75 | 66-2 | 2CP | 66-2 | 2CP | 4 | |
| 35 | 5.25 | 121.00 | 68-2 | 2CP | 68-2 | 2CPR | 4 | |
| 36 | 5.25 | 121.00 | 53-1 | 2CM | 74-2 | 2CPR | 4 | |
| 37 | 5.25 | 131.50 | 58-2 | 2CZ | 58-2 | 2CZR | 4 | |
| 38 | 5.25 | 143.25 | 62-2 | 2CP | 62-2 | 2CP | 5 | |
| 39 | 5.25 | 144.75 | 66-2 | 2CP | 66-2 | 2CPR | 5 | |
| 40 | 5.25 | 145.00 | 58-2 | 2CZ | 58-2 | 2CZR | 5 | |
| 41 | 5.25 | 145.25 | 56-2 | 2CZ | 65-2 | 2CP | 5 | |
| 42 | 5.25 | 148.00 | 50-2 | 2CM | 68-3 | 2CP | 5 | |
| 43 | 5.25 | 168.50 | 57-2 | 2CZ | 71-3 | 2CPR | 6 | |
| 44 | 5.25 | 168.75 | 50-2 | 2CM | 67-3 | 2CPR | 6 | |
| 45 | 5.25 | 169.00 | 60-3 | 2CZ | 71-4 | 2CP | 6 | |
| 46 | 5.25 | 169.00 | 63-2 | 2CP | 71-3 | 2CP | 6 | |
| 47 | 5.25 | 169.00 | 68-2 | 2CP | 73-3 | 2CP | 6 | |
| 48 | 5.25 | 169.25 | 51-3 | 2CM | 51-3 | 2CM | 6 | |
| 49 | 5.25 | 169.50 | 57-2 | 2CZ | 60-2 | 2CZ | 6 | |
| 50 | 5.25 | 193.75 | 58-3 | 2CZ | 58-3 | 2CZ | 7 | |

(a) - Minimum grade as determined by ReGS (Realistic Grading System) is the first computer solution found that meets the minimum requirements of the grade.

(b) - Maximum NHLA. Graded by hand from a to-scale plot of the board. Contains all cuttings up to the maximum allowed for the grade. S.M. is surface measure.

(c) - "R" denotes a board from second and third saw mills.

(d) - When board surface measure is half-way between consecutive standard feet, the minimum and maximum grades are determined with the smaller surface measure. Grades in this column are determined with the larger surface measure.

Table 13.--Board information report for No. 2A Common lumber

| Board number | Measured width (inches) | Length (inches) | Minimum grade (a) % S.M. & No. of cuttings | Minimum grade (a) Grade | Maximum grade (b) % S.M. & No. of cuttings | Maximum grade (b) Grade(c) | Surface measure (feet) | Larger surf. measure grade (d) |
|---|---|---|---|---|---|---|---|---|
| 51 | 5.25 | 193.75 | 53-2 | 2CM | 65-3 | 2CP | 7 | |
| 52 | 5.50 | 52.00 | 65-1 | 2CP | 65-1 | 2CP | 2 | |
| 53 | 5.50 | 71.25 | 73-1 | 2CP | 99-2 | 2CPR | 2 | |
| 54 | 5.50 | 72.75 | 54-1 | 2CM | 59-2 | 2CZ | 3 | |
| 55 | 5.50 | 72.75 | 50-1 | 2CM | 50-1 | 2CM | 3 | |
| 56 | 5.50 | 79.50 | 55-1 | 2CZ | 55-1 | 2CZ | 3 | |
| 57 | 5.50 | 96.00 | 70-2 | 2CP | 70-2 | 2CP | 4 | |
| 58 | 5.50 | 96.25 | 65-1 | 2CP | 79-2 | 2CP | 4 | |
| 59 | 5.50 | 96.75 | 53-1 | 2CM | 65-2 | 2CP | 4 | |
| 60 | 5.50 | 96.75 | 51-1 | 2CM | 57-2 | 2CZ | 4 | |
| 61 | 5.50 | 96.75 | 51-1 | 2CM | 69-2 | 2CP | 4 | |
| 62 | 5.50 | 96.75 | 50-1 | 2CM | 61-2 | 2CZ | 4 | |
| 63 | 5.50 | 96.75 | 51-1 | 2CM | 51-1 | 2CMR | 4 | |
| 64 | 5.50 | 96.75 | 57-1 | 2CZ | 66-2 | 2CP | 4 | |
| 65 | 5.50 | 97.00 | 56-1 | 2CZ | 68-2 | 2CPR | 4 | |
| 66 | 5.50 | 97.00 | 62-2 | 2CP | 62-2 | 2CP | 4 | |
| 67 | 5.50 | 97.00 | 59-2 | 2CZ | 59-2 | 2CZR | 4 | |
| 68 | 5.50 | 97.00 | 51-2 | 2CM | 65-2 | 2CPR | 4 | |
| 69 | 5.50 | 97.25 | 50-1 | 2CM | 60-2 | 2CZR | 4 | |
| 70 | 5.50 | 97.75 | 56-2 | 2CZ | 56-2 | 2CZ | 4 | |
| 71 | 5.50 | 116.75 | 69-2 | 2CP | 69-2 | 2CP | 4 | |
| 72 | 5.50 | 120.25 | 52-2 | 2CM | 56-2 | 2CZ | 5 | |
| 73 | 5.50 | 120.75 | 50-1 | 2CM | 60-2 | 2CZR | 5 | |
| 74 | 5.50 | 120.75 | 51-2 | 2CM | 51-2 | 2CM | 5 | |
| 75 | 5.50 | 120.75 | 51-2 | 2CM | 51-2 | 2CM | 5 | |
| 76 | 5.50 | 121.00 | 51-1 | 2CM | 51-1 | 2CM | 5 | |
| 77 | 5.50 | 121.00 | 54-2 | 2CM | 54-2 | 2CM | 5 | |
| 78 | 5.50 | 121.00 | 53-2 | 2CM | 53-2 | 2CM | 5 | |
| 79 | 5.50 | 121.00 | 56-1 | 2CZ | 73-2 | 2CPR | 5 | |
| 80 | 5.50 | 121.00 | 65-2 | 2CP | 65-2 | 2CPR | 5 | |
| 81 | 5.50 | 121.00 | 51-2 | 2CM | 51-2 | 2CMR | 5 | |
| 82 | 5.50 | 121.00 | 55-2 | 2CZ | 55-2 | 2CZR | 5 | |
| 83 | 5.50 | 121.00 | 53-2 | 2CM | 71-3 | 2CP | 5 | |
| 84 | 5.50 | 126.50 | 55-2 | 2CZ | 55-2 | 2CZR | 5 | |
| 85 | 5.50 | 140.75 | 64-2 | 2CP | 64-2 | 2CP | 5 | |
| 86 | 5.50 | 144.75 | 60-2 | 2CZ | 60-2 | 2CZR | 5 or 6 | 3A |
| 87 | 5.50 | 144.75 | 51-2 | 2CM | 63-3 | 2CP | 5 or 6 | 2A |
| 88 | 5.50 | 145.00 | 59-2 | 2CZ | 65-3 | 2CPR | 5 or 6 | 2A |
| 89 | 5.50 | 145.00 | 56-2 | 2CZ | 56-2 | 2CZ | 5 or 6 | 2A |
| 90 | 5.50 | 145.00 | 60-2 | 2CZ | 60-2 | 2CZ | 5 or 6 | 2A |
| 91 | 5.50 | 145.00 | 66-2 | 2CP | 66-2 | 2CP | 5 or 6 | 2A |
| 92 | 5.50 | 145.00 | 52-1 | 2CM | 66-2 | 2CP | 5 or 6 | 2A |
| 93 | 5.50 | 145.00 | 58-1 | 2CZ | 72-2 | 2CPR | 5 or 6 | 2A |
| 94 | 5.50 | 145.00 | 56-1 | 2CZ | 64-2 | 2CPR | 5 or 6 | 2A |
| 95 | 5.50 | 159.75 | 66-2 | 2CP | 72-3 | 2CPR | 6 | |
| 96 | 5.50 | 161.25 | 61-2 | 2CZ | 76-3 | 2CP | 6 | |
| 97 | 5.50 | 164.50 | 52-2 | 2CM | 71-3 | 2CP | 6 | |
| 98 | 5.50 | 166.25 | 55-2 | 2CZ | 72-3 | 2CP | 6 | |
| 99 | 5.50 | 166.75 | 51-2 | 2CM | 69-3 | 2CP | 6 | |
| 100 | 5.50 | 168.25 | 61-2 | 2CZ | 61-2 | 2CZ | 6 | |

(a) - Minimum grade as determined by ReGS (Realistic Grading System) is the first computer solution found that meets the minimum requirements of the grade.

(b) - Maximum NHLA. Graded by hand from a to-scale plot of the board. Contains all cuttings up to the maximum allowed for the grade. S.M. is surface measure.

(c) - “R” denotes a board from second and third saw mills.

(d) - When board surface measure is half-way between consecutive standard feet, the minimum and maximum grades are determined with the smaller surface measure. Grades in this column are determined with the larger surface measure.

Table 13.--Board information report for No. 2A Common lumber

| Board number | Measured width (inches) | Length (inches) | Minimum grade (a) % S.M. & No. of cuttings | Minimum grade (a) Grade | Maximum grade (b) % S.M. & No. of cuttings | Maximum grade (b) Grade(c) | Surface measure (feet) | Larger surf. measure grade (d) |
|---|---|---|---|---|---|---|---|---|
| 101 | 5.50 | 168.25 | 56-2 | 2CZ | 72-3 | 2CPR | 6 | |
| 102 | 5.50 | 168.75 | 52-2 | 2CM | 52-2 | 2CM | 6 | |
| 103 | 5.50 | 168.75 | 58-3 | 2CZ | 58-3 | 2CZR | 6 | |
| 104 | 5.50 | 169.00 | 61-3 | 2CZ | 61-3 | 2CZ | 6 | |
| 105 | 5.50 | 169.00 | 53-2 | 2CM | 67-3 | 2CP | 6 | |
| 106 | 5.50 | 169.00 | 64-2 | 2CP | 74-3 | 2CP | 6 | |
| 107 | 5.50 | 169.00 | 54-2 | 2CM | 61-3 | 2CZ | 6 | |
| 108 | 5.50 | 169.00 | 59-2 | 2CZ | 64-3 | 2CP | 6 | |
| 109 | 5.50 | 169.25 | 66-3 | 2CP | 66-3 | 2CP | 6 | |
| 110 | 5.50 | 169.25 | 63-2 | 2CP | 63-2 | 2CP | 6 | |
| 111 | 5.50 | 169.25 | 66-3 | 2CP | 66-3 | 2CP | 6 | |
| 112 | 5.50 | 169.25 | 56-2 | 2CZ | 64-3 | 2CP | 6 | |
| 113 | 5.50 | 169.25 | 57-3 | 2CZ | 57-3 | 2CZ | 6 | |
| 114 | 5.50 | 169.25 | 57-2 | 2CZ | 57-2 | 2CZ | 6 | |
| 115 | 5.50 | 169.50 | 52-3 | 2CM | 52-3 | 2CM | 6 | |
| 116 | 5.50 | 169.75 | 50-2 | 2CM | 64-3 | 2CP | 6 | |
| 117 | 5.50 | 192.50 | 57-3 | 2CZ | 67-4 | 2CPR | 7 | |
| 118 | 5.50 | 192.50 | 56-3 | 2CZ | 56-3 | 2CZR | 7 | |
| 119 | 5.50 | 192.50 | 57-2 | 2CZ | 67-3 | 2CPR | 7 | |
| 120 | 5.50 | 193.50 | 56-2 | 2CZ | 70-3 | 2CP | 7 | |
| 121 | 5.50 | 193.50 | 53-3 | 2CM | 53-3 | 2CM | 7 | |
| 122 | 5.50 | 193.50 | 54-3 | 2CM | 54-3 | 2CM | 7 | |
| 123 | 5.50 | 193.50 | 57-3 | 2CZ | 57-3 | 2CZ | 7 | |
| 124 | 5.50 | 193.50 | 51-1 | 2CM | 67-4 | 2CP | 7 | |
| 125 | 5.50 | 193.75 | 61-3 | 2CZ | 61-3 | 2CZ | 7 | |
| 126 | 5.75 | 73.00 | 52-1 | 2CM | 71-2 | 2CPR | 3 | |
| 127 | 5.75 | 85.50 | 66-1 | 2CP | 78-2 | 2CPR | 3 | |
| 128 | 5.75 | 96.00 | 60-2 | 2CZ | 73-2 | 2CPR | 4 | |
| 129 | 5.75 | 96.00 | 53-2 | 2CM | 68-3 | 2CPR | 4 | |
| 130 | 5.75 | 96.25 | 59-1 | 2CZ | 78-2 | 2CP | 4 | |
| 131 | 5.75 | 96.75 | 61-1 | 2CZ | 71-4 | 2CPR | 4 | |
| 132 | 5.75 | 96.75 | 56-2 | 2CZ | 56-2 | 2CZ | 4 | |
| 133 | 5.75 | 96.75 | 56-2 | 2CZ | 61-2 | 2CZ | 4 | |
| 134 | 5.75 | 96.75 | 55-1 | 2CZ | 66-2 | 2CP | 4 | |
| 135 | 5.75 | 96.75 | 54-2 | 2CM | 73-3 | 2CP | 4 | |
| 136 | 5.75 | 97.00 | 55-1 | 2CZ | 62-2 | 2CPR | 4 | |
| 137 | 5.75 | 97.00 | 63-1 | 2CP | 63-1 | 2CP | 4 | |
| 138 | 5.75 | 97.25 | 73-2 | 2CP | 73-2 | 2CPR | 4 | |
| 139 | 5.75 | 97.25 | 61-2 | 2CZ | 75-3 | 2CPR | 4 | |
| 140 | 5.75 | 98.25 | 67-2 | 2CP | 67-2 | 2CP | 4 | |
| 141 | 5.75 | 100.25 | 55-1 | 2CZ | 70-2 | 2CPR | 4 | |
| 142 | 5.75 | 114.75 | 73-2 | 2CP | 73-2 | 2CP | 4 | |
| 143 | 5.75 | 118.75 | 53-2 | 2CM | 53-2 | 2CMR | 4 | |
| 144 | 5.75 | 120.00 | 57-2 | 2CZ | 57-2 | 2CZ | 5 | |
| 145 | 5.75 | 120.25 | 53-2 | 2CM | 53-2 | 2CM | 5 | |
| 146 | 5.75 | 120.50 | 51-2 | 2CM | 51-2 | 2CM | 5 | |
| 147 | 5.75 | 120.50 | 61-2 | 2CZ | 61-2 | 2CZ | 5 | |
| 148 | 5.75 | 120.75 | 66-2 | 2CP | 66-2 | 2CPR | 5 | |
| 149 | 5.75 | 120.75 | 52-2 | 2CM | 73-3 | 2CP | 5 | |
| 150 | 5.75 | 120.75 | 54-2 | 2CM | 70-3 | 2CPR | 5 | |

(a) - Minimum grade as determined by ReGS (Realistic Grading System) is the first computer solution found that meets the minimum requirements of the grade.

(b) - Maximum NHLA. Graded by hand from a to-scale plot of the board. Contains all cuttings up to the maximum allowed for the grade. S.M. is surface measure.

(c) - “R” denotes a board from second and third saw mills.

(d) - When board surface measure is half-way between consecutive standard feet, the minimum and maximum grades are determined with the smaller surface measure. Grades in this column are determined with the larger surface measure.

Table 13.--Board information report for No. 2A Common lumber

| Board number | Measured width (inches) | Length (inches) | Minimum grade (a) % S.M. & No. of cuttings | Minimum grade (a) Grade | Maximum grade (b) % S.M. & No. of cuttings | Maximum grade (b) Grade(c) | Surface measure (feet) | Larger surf. measure grade (d) |
|---|---|---|---|---|---|---|---|---|
| 151 | 5.75 | 121.00 | 61-1 | 2CZ | 76-3 | 2CPR | 5 | |
| 152 | 5.75 | 121.00 | 62-2 | 2CP | 62-2 | 2CPR | 5 | |
| 153 | 5.75 | 121.00 | 56-2 | 2CZ | 56-2 | 2CZ | 5 | |
| 154 | 5.75 | 121.00 | 52-1 | 2CM | 57-2 | 2CZR | 5 | |
| 155 | 5.75 | 121.00 | 52-2 | 2CM | 52-2 | 2CMR | 5 | |
| 156 | 5.75 | 121.00 | 52-2 | 2CM | 52-2 | 2CM | 5 | |
| 157 | 5.75 | 121.00 | 56-2 | 2CZ | 73-3 | 2CP | 5 | |
| 158 | 5.75 | 121.00 | 65-1 | 2CP | 65-1 | 2CP | 5 | |
| 159 | 5.75 | 121.00 | 58-2 | 2CZ | 58-2 | 2CZ | 5 | |
| 160 | 5.75 | 121.00 | 57-1 | 2CZ | 63-2 | 2CPR | 5 | |
| 161 | 5.75 | 122.50 | 66-1 | 2CP | 66-1 | 2CP | 5 | |
| 162 | 5.75 | 129.75 | 57-2 | 2CZ | 69-3 | 2CPR | 5 | |
| 163 | 5.75 | 144.00 | 62-2 | 2CP | 71-3 | 2CP | 6 | |
| 164 | 5.75 | 144.75 | 57-2 | 2CZ | 57-2 | 2CZ | 6 | |
| 165 | 5.75 | 144.75 | 50-3 | 2CM | 55-3 | 2CZ | 6 | |
| 166 | 5.75 | 144.75 | 61-2 | 2CZ | 69-3 | 2CPR | 6 | |
| 167 | 5.75 | 144.75 | 55-1 | 2CZ | 62-2 | 2CPR | 6 | |
| 168 | 5.75 | 144.75 | 58-3 | 2CZ | 58-3 | 2CZ | 6 | |
| 169 | 5.75 | 144.75 | 59-2 | 2CZ | 71-3 | 2CPR | 6 | |
| 170 | 5.75 | 145.00 | 51-3 | 2CM | 51-3 | 2CM | 6 | |
| 171 | 5.75 | 145.00 | 52-2 | 2CM | 52-2 | 2CM | 6 | |
| 172 | 5.75 | 145.00 | 63-3 | 2CP | 63-3 | 2CP | 6 | |
| 173 | 5.75 | 145.00 | 51-3 | 2CM | 51-3 | 2CM | 6 | |
| 174 | 5.75 | 145.00 | 59-2 | 2CZ | 59-2 | 2CZR | 6 | |
| 175 | 5.75 | 145.00 | 60-2 | 2CZ | 74-3 | 2CP | 6 | |
| 176 | 5.75 | 168.00 | 51-2 | 2CM | 61-3 | 2CZ | 7 | |
| 177 | 5.75 | 168.25 | 69-3 | 2CP | 77-4 | 2CP | 7 | |
| 178 | 5.75 | 168.50 | 51-2 | 2CM | 58-3 | 2CZ | 7 | |
| 179 | 5.75 | 168.50 | 50-3 | 2CM | 62-3 | 2CPR | 7 | |
| 180 | 5.75 | 168.75 | 58-1 | 2CZ | 71-3 | 2CPR | 7 | |
| 181 | 5.75 | 168.75 | 64-2 | 2CP | 71-3 | 2CPR | 7 | |
| 182 | 5.75 | 168.75 | 58-2 | 2CZ | 69-3 | 2CPR | 7 | |
| 183 | 5.75 | 168.75 | 51-3 | 2CM | 51-3 | 2CMR | 7 | |
| 184 | 5.75 | 169.00 | 52-2 | 2CM | 52-2 | 2CM | 7 | |
| 185 | 5.75 | 169.00 | 58-2 | 2CZ | 73-3 | 2CP | 7 | |
| 186 | 5.75 | 169.25 | 51-3 | 2CM | 59-3 | 2CZ | 7 | |
| 187 | 5.75 | 169.25 | 54-2 | 2CM | 54-2 | 2CM | 7 | |
| 188 | 5.75 | 169.25 | 53-2 | 2CM | 65-3 | 2CP | 7 | |
| 189 | 5.75 | 190.00 | 59-2 | 2CZ | 67-4 | 2CPR | 7 | |
| 190 | 5.75 | 192.25 | 55-3 | 2CZ | 66-4 | 2CPR | 8 | |
| 191 | 5.75 | 192.50 | 52-3 | 2CM | 55-3 | 2CZR | 8 | |
| 192 | 5.75 | 193.25 | 51-2 | 2CM | 51-2 | 2CM | 8 | |
| 193 | 5.75 | 193.50 | 52-2 | 2CM | 58-3 | 2CZ | 8 | |
| 194 | 5.75 | 193.50 | 51-3 | 2CM | 61-4 | 2CZ | 8 | |
| 195 | 5.75 | 193.50 | 53-3 | 2CM | 56-4 | 2CZ | 8 | |
| 196 | 6.00 | 50.50 | 66-1 | 2CP | 66-1 | 2CP | 2 | |
| 197 | 6.00 | 72.75 | 56-1 | 2CZ | 73-2 | 2CPR | 3 | |
| 198 | 6.00 | 73.00 | 56-1 | 2CZ | 71-2 | 2CPR | 3 | |
| 199 | 6.00 | 73.25 | 51-1 | 2CM | 78-2 | 2CPR | 3 | |
| 200 | 6.00 | 75.75 | 63-1 | 2CP | 63-1 | 2CPR | 3 | |

(a) - Minimum grade as determined by ReGS (Realistic Grading System) is the first computer solution found that meets the minimum requirements of the grade.

(b) - Maximum NHLA. Graded by hand from a to-scale plot of the board. Contains all cuttings up to the maximum allowed for the grade. S.M. is surface measure.

(c) - "R" denotes a board from second and third saw mills.

(d) - When board surface measure is half-way between consecutive standard feet, the minimum and maximum grades are determined with the smaller surface measure. Grades in this column are determined with the larger surface measure.

Table 13.--Board information report for No. 2A Common lumber

| Board number | Measured width (inches) | Length (inches) | Minimum grade (a) % S.M. & No. of cuttings | Grade | Maximum grade (b) % S.M. & No. of cuttings | Grade(c) | Surface measure (feet) | Larger surf. measure grade (d) |
|---|---|---|---|---|---|---|---|---|
| 201 | 6.00 | 76.00 | 50-1 | 2CM | 72-2 | 2CPR | 3 | |
| 202 | 6.00 | 97.00 | 65-2 | 2CP | 65-2 | 2CPR | 4 | |
| 203 | 6.00 | 97.00 | 62-2 | 2CP | 62-2 | 2CPR | 4 | |
| 204 | 6.00 | 97.00 | 68-2 | 2CP | 68-2 | 2CPR | 4 | |
| 205 | 6.00 | 97.00 | 53-2 | 2CM | 53-2 | 2CMR | 4 | |
| 206 | 6.00 | 97.00 | 52-1 | 2CM | 86-3 | 2CPR | 4 | |
| 207 | 6.00 | 97.00 | 51-2 | 2CM | 58-2 | 2CZR | 4 | |
| 208 | 6.00 | 97.00 | 58-1 | 2CZ | 58-1 | 2CZR | 4 | |
| 209 | 6.00 | 97.25 | 51-1 | 2CM | 80-3 | 2CPR | 4 | |
| 210 | 6.00 | 97.25 | 56-1 | 2CZ | 68-2 | 2CPR | 4 | |
| 211 | 6.00 | 108.00 | 57-2 | 2CZ | 57-2 | 2CZR | 4 or 5 | 3A |
| 212 | 6.00 | 108.75 | 62-1 | 2CP | 62-1 | 2CP | 4 or 5 | 2A |
| 213 | 6.00 | 119.00 | 51-1 | 2CM | 65-2 | 2CPR | 4 or 5 | 2A |
| 214 | 6.00 | 120.50 | 60-2 | 2CZ | 60-2 | 2CZR | 5 | |
| 215 | 6.00 | 120.75 | 58-2 | 2CZ | 65-3 | 2CPR | 5 | |
| 216 | 6.00 | 120.75 | 61-2 | 2CZ | 61-2 | 2CZ | 5 | |
| 217 | 6.00 | 120.75 | 63-2 | 2CP | 63-2 | 2CPR | 5 | |
| 218 | 6.00 | 120.75 | 54-2 | 2CM | 54-2 | 2CMR | 5 | |
| 219 | 6.00 | 121.00 | 66-2 | 2CP | 66-2 | 2CPR | 5 | |
| 220 | 6.00 | 121.25 | 59-1 | 2CZ | 69-2 | 2CPR | 5 | |
| 221 | 6.00 | 125.75 | 65-2 | 2CP | 65-2 | 2CP | 5 | |
| 222 | 6.00 | 144.75 | 52-2 | 2CM | 73-3 | 2CPR | 6 | |
| 223 | 6.00 | 144.75 | 51-3 | 2CM | 51-3 | 2CMR | 6 | |
| 224 | 6.00 | 144.75 | 51-2 | 2CM | 67-4 | 2CPR | 6 | |
| 225 | 6.00 | 145.00 | 57-2 | 2CZ | 66-3 | 2CPR | 6 | |
| 226 | 6.00 | 145.00 | 57-2 | 2CZ | 62-3 | 2CP | 6 | |
| 227 | 6.00 | 145.00 | 51-3 | 2CM | 51-3 | 2CM | 6 | |
| 228 | 6.00 | 145.00 | 58-2 | 2CZ | 58-2 | 2CZR | 6 | |
| 229 | 6.00 | 145.00 | 57-3 | 2CZ | 57-3 | 2CZR | 6 | |
| 230 | 6.00 | 168.25 | 58-2 | 2CZ | 70-3 | 2CPR | 7 | |
| 231 | 6.00 | 168.25 | 52-3 | 2CM | 52-3 | 2CMR | 7 | |
| 232 | 6.00 | 168.50 | 52-3 | 2CM | 66-4 | 2CPR | 7 | |
| 233 | 6.00 | 168.50 | 58-3 | 2CZ | 58-3 | 2CZR | 7 | |
| 234 | 6.00 | 168.50 | 52-3 | 2CM | 62-4 | 2CPR | 7 | |
| 235 | 6.00 | 168.75 | 53-2 | 2CM | 70-3 | 2CPR | 7 | |
| 236 | 6.00 | 192.50 | 53-3 | 2CM | 63-4 | 2CPR | 8 | |
| 237 | 6.00 | 193.50 | 54-2 | 2CM | 68-4 | 2CP | 8 | |
| 238 | 6.25 | 66.25 | 52-1 | 2CM | 52-1 | 2CM | 3 | |
| 239 | 6.25 | 94.75 | 70-2 | 2CP | 75-3 | 2CPR | 4 | |
| 240 | 6.25 | 96.50 | 54-1 | 2CM | 72-2 | 2CPR | 4 | |
| 241 | 6.25 | 97.00 | 56-1 | 2CZ | 56-1 | 2CZR | 4 | |
| 242 | 6.25 | 97.00 | 63-2 | 2CP | 63-2 | 2CPR | 4 | |
| 243 | 6.25 | 97.25 | 53-2 | 2CM | 68-3 | 2CPR | 4 | |
| 244 | 6.25 | 97.25 | 71-2 | 2CP | 71-2 | 2CPR | 4 | |
| 245 | 6.25 | 97.25 | 58-2 | 2CZ | 58-2 | 2CZR | 4 | |
| 246 | 6.25 | 98.50 | 58-1 | 2CZ | 66-2 | 2CPR | 4 | |
| 247 | 6.25 | 119.00 | 60-2 | 2CZ | 60-2 | 2CZR | 5 | |
| 248 | 6.25 | 120.75 | 56-2 | 2CZ | 56-2 | 2CZR | 5 | |
| 249 | 6.25 | 120.75 | 52-2 | 2CM | 52-2 | 2CMR | 5 | |
| 250 | 6.25 | 120.75 | 56-2 | 2CZ | 73-3 | 2CPR | 5 | |

(a) - Minimum grade as determined by ReGS (Realistic Grading System) is the first computer solution found that meets the minimum requirements of the grade.

(b) - Maximum NHLA. Graded by hand from a to-scale plot of the board. Contains all cuttings up to the maximum allowed for the grade. S.M. is surface measure.

(c) - “R” denotes a board from second and third sawmills.

(d) - When board surface measure Is half-way between consecutive standard feet, the minimum and maximum grades are determined with the smaller surface measure. Grades in this column are determined with the larger surface measure.

Table 13.--Board information report for No. 2A Common lumber

| Board number | Measured width (inches) | Length (inches) | Minimum grade (a) % S.M. & No. of cuttings | Grade | Maximum grade (b) % S.M. No. of cuttings | Grade(c) | Surface measure (feet) | Larger surf. measure grade (d) |
|---|---|---|---|---|---|---|---|---|
| 251 | 6.25 | 121.00 | 66-2 | 2CP | 66-2 | 2CPR | 5 | |
| 252 | 6.25 | 121.00 | 54-2 | 2CM | 54-2 | 2CM | 5 | |
| 253 | 6.25 | 121.00 | 52-2 | 2CM | 71-3 | 2CP | 5 | |
| 254 | 6.25 | 121.00 | 56-2 | 2CZ | 61-2 | 2CZR | 5 | |
| 255 | 6.25 | 121.25 | 59-2 | 2CZ | 59-2 | 2CZR | 5 | |
| 256 | 6.25 | 121.50 | 53-2 | 2CM | 53-2 | 2CMR | 5 | |
| 257 | 6.25 | 141.00 | 51-2 | 2CM | 62-3 | 2CP | 6 | |
| 258 | 6.25 | 144.75 | 52-2 | 2CM | 64-3 | 2CPR | 6 | |
| 259 | 6.25 | 144.75 | 51-3 | 2CM | 58-3 | 2CZR | 6 | |
| 260 | 6.25 | 144.75 | 58-2 | 2CZ | 68-3 | 2CPR | 6 | |
| 261 | 6.25 | 144.75 | 57-2 | 2CZ | 57-2 | 2CZR | 6 | |
| 262 | 6.25 | 144.75 | 51-2 | 2CM | 69-3 | 2CPR | 6 | |
| 263 | 6.25 | 145.00 | 52-1 | 2CM | 77-4 | 2CPR | 6 | |
| 264 | 6.25 | 145.00 | 55-2 | 2CZ | 65-3 | 2CPR | 6 | |
| 265 | 6.25 | 145.00 | 53-2 | 2CM | 74-3 | 2CPR | 6 | |
| 266 | 6.25 | 156.00 | 50-2 | 2CM | 61-3 | 2CZR | 7 | |
| 267 | 6.25 | 156.00 | 50-3 | 2CM | 56-3 | 2CZR | 7 | |
| 268 | 6.25 | 168.50 | 55-3 | 2CZ | 70-4 | 2CPR | 7 | |
| 269 | 6.25 | 168.75 | 55-2 | 2CZ | 67-3 | 2CPR | 7 | |
| 270 | 6.25 | 178.75 | 53-2 | 2CM | 63-3 | 2CPR | 7 | |
| 271 | 6.25 | 192.50 | 51-3 | 2CM | 61-4 | 2CZR | 8 | |
| 272 | 6.50 | 60.50 | 61-1 | 2CZ | 61-1 | 2CZR | 3 | |
| 273 | 6.50 | 72.75 | 63-1 | 2CP | 63-1 | 2CP | 3 | |
| 274 | 6.50 | 96.00 | 53-2 | 2CM | 53-2 | 2CMR | 4 | |
| 275 | 6.50 | 96.25 | 54-2 | 2CM | 54-2 | 2CM | 4 | |
| 276 | 6.50 | 96.75 | 63-2 | 2CP | 63-2 | 2CP | 4 | |
| 277 | 6.50 | 97.00 | 60-1 | 2CZ | 64-2 | 2CPR | 4 | |
| 278 | 6.50 | 97.00 | 52-1 | 2CM | 63-2 | 2CPR | 4 | |
| 279 | 6.50 | 97.00 | 66-1 | 2CP | 80-3 | 2CPR | 4 | |
| 280 | 6.50 | 97.25 | 56-2 | 2CZ | 56-2 | 2CZR | 4 | |
| 281 | 6.50 | 97.50 | 63-1 | 2CP | 74-2 | 2CP | 4 | |
| 282 | 6.50 | 120.00 | 53-1 | 2CM | 67-3 | 2CP | 5 | |
| 283 | 6.50 | 120.75 | 65-2 | 2CP | 73-3 | 2CPR | 5 | |
| 284 | 6.50 | 121.00 | 61-1 | 2CZ | 77-2 | 2CPR | 5 | |
| 285 | 6.50 | 121.00 | 53-2 | 2CM | 53-2 | 2CM | 5 | |
| 286 | 6.50 | 121.00 | 58-2 | 2CZ | 58-2 | 2CZR | 5 | |
| 287 | 6.50 | 144.50 | 54-3 | 2CM | 54-3 | 2CMR | 6 or 7 | 3A |
| 288 | 6.50 | 144.75 | 54-2 | 2CM | 74-3 | 2CPR | 6 or 7 | 2A |
| 289 | 6.50 | 144.75 | 59-3 | 2CZ | 72-4 | 2CP | 6 or 7 | 2A |
| 290 | 6.50 | 145.00 | 62-3 | 2CP | 62-3 | 2CP | 6 or 7 | 2A |
| 291 | 6.50 | 145.00 | 51-2 | 2CM | 70-3 | 2CPR | 6 or 7 | 2A |
| 292 | 6.50 | 145.00 | 56-2 | 2CZ | 61-3 | 2CZR | 6 or 7 | 2A |
| 293 | 6.50 | 168.75 | 58-3 | 2CZ | 58-3 | 2CZR | 8 | |
| 294 | 6.50 | 168.75 | 51-2 | 2CM | 66-4 | 2CPR | 8 | |
| 295 | 6.50 | 192.50 | 51-3 | 2CM | 62-4 | 2CPR | 9 | |
| 296 | 6.50 | 192.50 | 52-3 | 2CM | 74-4 | 2CPR | 9 | |
| 297 | 6.75 | 86.00 | 63-1 | 2CP | 67-2 | 2CPR | 4 | |
| 298 | 6.75 | 96.25 | 54-1 | 2CM | 58-2 | 2CZ | 4 or 5 | 2A |
| 299 | 6.75 | 96.25 | 63-1 | 2CP | 63-1 | 2CP | 4 or 5 | 2A |
| 300 | 6.75 | 96.75 | 60-1 | 2CZ | 74-2 | 2CPR | 4 or 5 | 2A |

(a) - Minimum grade as determined by ReGS (Realistic Grading System) is the first computer solution found that meets the minimum requirements of the grade.

(b) - Maximum NHLA. Graded by hand from a to-scale plot of the board. Contains all cuttings up to the maximum allowed for the grade. S.M. is surface measure.

(c) - “R” denotes a board from second and third saw mills.

(d) - When board surface measure is half-way between consecutive standard feet, the minimum and maximum grades are determined with the smaller surface measure. Grades in this column are determined with the larger surface measure.

Table 13.--Board information report for No. 2A Common lumber

| Board number | Measured width (inches) | Length (inches) | Minimum grade (a) % S.M. & No. of cuttings | Minimum grade (a) Grade | Maximum grade (b) % S.M. & No. of cuttings | Maximum grade (b) Grade(c) | Surface measure (feet) | Larger surf. measure grade (d) |
|---|---|---|---|---|---|---|---|---|
| 301 | 6.75 | 96.75 | 52-2 | 2CM | 64-2 | 2CP | 4 or 5 | 2A |
| 302 | 6.75 | 97.00 | 65-2 | 2CP | 65-2 | 2CPR | 4 or 5 | 2A |
| 303 | 6.75 | 97.25 | 59-1 | 2CZ | 66-2 | 2CPR | 4 or 5 | 2A |
| 304 | 6.75 | 118.50 | 65-2 | 2CP | 65-2 | 2CPR | 5 | |
| 305 | 6.75 | 120.50 | 53-2 | 2CM | 53-2 | 2CM | 6 | |
| 306 | 6.75 | 120.75 | 52-2 | 2CM | 63-3 | 2CPR | 6 | |
| 307 | 6.75 | 120.75 | 52-2 | 2CM | 52-2 | 2CMR | 6 | |
| 308 | 6.75 | 120.75 | 51-2 | 2CM | 60-3 | 2CZR | 6 | |
| 309 | 6.75 | 120.75 | 54-2 | 2CM | 54-2 | 2CMR | 6 | |
| 310 | 6.75 | 120.75 | 55-2 | 2CZ | 62-3 | 2CP | 6 | |
| 311 | 6.75 | 121.00 | 54-3 | 2CM | 54-3 | 2CMR | 6 | |
| 312 | 6.75 | 121.00 | 53-1 | 2CM | 68-3 | 2CPR | 6 | |
| 313 | 6.75 | 123.25 | 51-3 | 2CM | 62-3 | 2CP | 6 | |
| 314 | 6.75 | 144.50 | 66-2 | 2CP | 66-2 | 2CPR | 7 | |
| 315 | 6.75 | 144.75 | 51-3 | 2CM | 68-4 | 2CPR | 7 | |
| 316 | 6.75 | 144.75 | 60-2 | 2CZ | 69-3 | 2CP | 7 | |
| 317 | 6.75 | 144.75 | 66-2 | 2CP | 73-4 | 2CPR | 7 | |
| 318 | 6.75 | 145.00 | 56-2 | 2CZ | 67-3 | 2CPR | 7 | |
| 319 | 6.75 | 145.00 | 52-3 | 2CM | 67-4 | 2CPR | 7 | |
| 320 | 6.75 | 169.50 | 51-3 | 2CM | 64-4 | 2CP | 8 | |
| 321 | 6.75 | 192.50 | 51-3 | 2CM | 64-4 | 2CPR | 9 | |
| 322 | 6.75 | 193.25 | 51-3 | 2CM | 56-4 | 2CZ | 9 | |
| 323 | 7.00 | 73.00 | 61-1 | 2CZ | 70-2 | 2CPR | 3 or 4 | 2A |
| 324 | 7.00 | 73.00 | 74-2 | 2CP | 74-2 | 2CPR | 3 or 4 | 2A |
| 325 | 7.00 | 96.00 | 54-2 | 2CM | 54-2 | 2CMR | 5 | |
| 326 | 7.00 | 96.25 | 59-2 | 2CZ | 64-2 | 2CP | 5 | |
| 327 | 7.00 | 97.50 | 50-2 | 2CM | 74-3 | 2CP | 5 | |
| 328 | 7.00 | 98.25 | 54-2 | 2CM | 74-3 | 2CP | 5 | |
| 329 | 7.00 | 120.75 | 51-1 | 2CM | 63-3 | 2CPR | 6 | |
| 330 | 7.00 | 120.75 | 52-3 | 2CM | 52-3 | 2CMR | 6 | |
| 331 | 7.00 | 120.75 | 65-2 | 2CP | 65-2 | 2CP | 6 | |
| 332 | 7.00 | 120.75 | 58-2 | 2CZ | 58-2 | 2CZR | 6 | |
| 333 | 7.00 | 120.75 | 62-2 | 2CP | 62-2 | 2CPR | 6 | |
| 334 | 7.00 | 121.00 | 61-3 | 2CZ | 61-3 | 2CZR | 6 | |
| 335 | 7.00 | 121.00 | 56-2 | 2CZ | 69-3 | 2CPR | 6 | |
| 336 | 7.00 | 144.75 | 51-2 | 2CM | 66-3 | 2CP | 7 | |
| 337 | 7.00 | 144.75 | 50-2 | 2CM | 50-2 | 2CMR | 7 | |
| 338 | 7.00 | 144.75 | 57-3 | 2CZ | 67-3 | 2CPR | 7 | |
| 339 | 7.00 | 144.75 | 60-2 | 2CZ | 67-3 | 2CPR | 7 | |
| 340 | 7.00 | 144.75 | 61-3 | 2CZ | 67-4 | 2CPR | 7 | |
| 341 | 7.00 | 145.00 | 58-2 | 2CZ | 58-2 | 2CZ | 7 | |
| 342 | 7.00 | 145.00 | 53-3 | 2CM | 68-4 | 2CP | 7 | |
| 343 | 7.00 | 154.00 | 52-2 | 2CM | 71-4 | 2CP | 7 | |
| 344 | 7.00 | 156.00 | 53-4 | 2CM | 55-4 | 2CZR | 8 | |
| 345 | 7.00 | 168.75 | 52-3 | 2CM | 67-4 | 2CPR | 8 | |
| 346 | 7.00 | 169.00 | 59-2 | 2CZ | 72-4 | 2CP | 8 | |
| 347 | 7.00 | 192.50 | 50-2 | 2CM | 67-4 | 2CPR | 9 | |
| 348 | 7.00 | 192.75 | 60-2 | 2CZ | 67-3 | 2CPR | 9 | |
| 349 | 7.25 | 72.75 | 60-1 | 2CZ | 74-2 | 2CP | 4 | |
| 350 | 7.25 | 78.00 | 66-2 | 2CP | 84-3 | 2CPR | 4 | |

(a) - Minimum grade as determined by ReGS (Realistic Grading System) is the first computer solution found that meets the minimum requirements of the grade.

(b) - Maximum NHLA. Graded by hand from a to-scale plot of the board. Contains all cuttings up to the maximum allowed for the grade. S.M. is surface measure.

(c) - "R" denotes a board from second and third saw mills.

(d) - When board surface measure is half-way between consecutive standard feet, the minimum and maximum grades are determined with the smaller surface measure. Grades in this column are determined with the larger surface measure.

Table 13.--Board information report for No. 2A Common lumber

| Board number | Measured width (inches) | Length (inches) | Minimum grade (a) % S.M. & No. of cuttings | Minimum grade (a) Grade | Maximum grade (b) % S.M. & No. of cuttings | Maximum grade (b) Grade(c) | Surface measure (feet) | Larger surf. measure grade (d) |
|---|---|---|---|---|---|---|---|---|
| 351 | 7.25 | 96.25 | 52-2 | 2CM | 52-2 | 2CM | 5 | |
| 352 | 7.25 | 96.50 | 52-2 | 2CM | 58-2 | 2CZ | 5 | |
| 353 | 7.25 | 96.75 | 59-1 | 2CZ | 59-1 | 2CZ | 5 | |
| 354 | 7.25 | 96.75 | 66-2 | 2CP | 66-2 | 2CP | 5 | |
| 355 | 7.25 | 97.00 | 65-2 | 2CP | 65-2 | 2CPR | 5 | |
| 356 | 7.25 | 97.25 | 51-1 | 2CM | 51-1 | 2CMR | 5 | |
| 357 | 7.25 | 97.25 | 59-2 | 2CZ | 59-2 | 2CZR | 5 | |
| 358 | 7.25 | 97.50 | 51-2 | 2CM | 51-2 | 2CMR | 5 | |
| 359 | 7.25 | 109.75 | 54-1 | 2CM | 59-2 | 2CZ | 5 | |
| 360 | 7.25 | 120.50 | 53-2 | 2CM | 59-3 | 2CZ | 6 | |
| 361 | 7.25 | 120.50 | 56-2 | 2CZ | 70-3 | 2CPR | 6 | |
| 362 | 7.25 | 120.50 | 51-2 | 2CM | 66-3 | 2CPR | 6 | |
| 363 | 7.25 | 120.75 | 53-2 | 2CM | 65-3 | 2CP | 6 | |
| 364 | 7.25 | 120.75 | 55-2 | 2CZ | 61-2 | 2CZ | 6 | |
| 365 | 7.25 | 120.75 | 61-3 | 2CZ | 61-3 | 2CZR | 6 | |
| 366 | 7.25 | 120.75 | 53-2 | 2CM | 53-2 | 2CM | 6 | |
| 367 | 7.25 | 120.75 | 58-2 | 2CZ | 72-3 | 2CPR | 6 | |
| 368 | 7.25 | 121.00 | 61-2 | 2CZ | 61-2 | 2CZR | 6 | |
| 369 | 7.25 | 121.00 | 59-2 | 2CZ | 67-3 | 2CPR | 6 | |
| 370 | 7.25 | 121.00 | 60-2 | 2CZ | 60-2 | 2CZR | 6 | |
| 371 | 7.25 | 132.00 | 53-3 | 2CM | 53-3 | 2CMR | 7 | |
| 372 | 7.25 | 144.00 | 54-2 | 2CM | 71-3 | 2CPR | 7 | |
| 373 | 7.25 | 144.75 | 55-2 | 2CZ | 55-2 | 2CZR | 7 | |
| 374 | 7.25 | 144.75 | 55-2 | 2CZ | 70-3 | 2CPR | 7 | |
| 375 | 7.25 | 145.00 | 50-2 | 2CM | 73-3 | 2CP | 7 | |
| 376 | 7.25 | 168.25 | 56-3 | 2CZ | 78-4 | 2CPR | 8 | |
| 377 | 7.25 | 168.75 | 52-3 | 2CM | 52-3 | 2CMR | 8 | |
| 378 | 7.25 | 168.75 | 50-2 | 2CM | 61-4 | 2CZR | 8 | |
| 379 | 7.25 | 192.50 | 52-5 | 2CM | 62-5 | 2CPR | 10 | |
| 380 | 7.25 | 193.25 | 51-3 | 2CM | 66-4 | 2CP | 10 | |
| 381 | 7.50 | 88.00 | 64-2 | 2CP | 73-3 | 2CP | 4 | |
| 382 | 7.50 | 89.75 | 53-1 | 2CM | 72-2 | 2CP | 4 | |
| 383 | 7.50 | 97.00 | 52-2 | 2CM | 52-2 | 2CMR | 5 | |
| 384 | 7.50 | 97.00 | 65-1 | 2CP | 65-1 | 2CP | 5 | |
| 385 | 7.50 | 97.00 | 51-2 | 2CM | 62-2 | 2CPR | 5 | |
| 386 | 7.50 | 119.25 | 50-1 | 2CM | 57-2 | 2CZR | 6 | |
| 387 | 7.50 | 120.25 | 55-2 | 2CZ | 64-3 | 2CP | 6 | |
| 388 | 7.50 | 120.75 | 52-1 | 2CM | 70-3 | 2CPR | 6 | |
| 389 | 7.50 | 120.75 | 54-1 | 2CM | 66-3 | 2CP | 6 | |
| 390 | 7.50 | 120.75 | 54-2 | 2CM | 61-3 | 2CZR | 6 | |
| 391 | 7.50 | 120.75 | 55-2 | 2CZ | 74-3 | 2CPR | 6 | |
| 392 | 7.50 | 120.75 | 53-2 | 2CM | 66-3 | 2CPR | 6 | |
| 393 | 7.50 | 120.75 | 57-2 | 2CZ | 57-2 | 2CZ | 6 | |
| 394 | 7.50 | 121.00 | 52-2 | 2CM | 62-3 | 2CPR | 6 | |
| 395 | 7.50 | 121.00 | 54-1 | 2CM | 64-2 | 2CP | 6 | |
| 396 | 7.50 | 144.25 | 59-2 | 2CZ | 73-3 | 2CP | 7 or 8 | 2A |
| 397 | 7.50 | 144.75 | 54-2 | 2CM | 82-4 | 2CPR | 7 or 8 | 2A |
| 398 | 7.50 | 145.00 | 52-3 | 2CM | 58-4 | 2CZR | 7 or 8 | 2A |
| 399 | 7.50 | 145.00 | 55-2 | 2CZ | 92-4 | 2CP | 7 or 8 | 2A |
| 400 | 7.50 | 145.00 | 59-3 | 2CZ | 59-3 | 2CZ | 7 or 8 | 2A |

(a) - Minimum grade as determined by ReGS (Realistic Grading System) is the first computer solution found that meets the minimum requirements of the grade.

(b) - Maximum NHLA. Graded by hand from a to-scale plot of the board. Contains all cuttings up to the maximum allowed for the grade. S.M. is surface measure.

(c) - "R" denotes a board from second and third saw mills.

(d) - When board surface measure is half-way between consecutive standard feet, the minimum and maximum grades are determined with the smaller surface measure. Grades in this column are determined with the larger surface measure.

Table 13.--Board information report for No. 2A Common lumber

| Board number | Measured width (inches) | Length (inches) | Minimum grade (a) % S.M. & No. of cuttings | Minimum grade (a) Grade | Maximum grade (b) % S.M. & No. of cuttings | Maximum grade (b) Grade(c) | Surface measure (feet) | Larger surf. measure grade (d) |
|---|---|---|---|---|---|---|---|---|
| 401 | 7.50 | 145.25 | 66-3 | 2CP | 66-3 | 2CP | 7 or 8 | |
| 402 | 7.50 | 169.25 | 56-3 | 2CZ | 67-4 | 2CP | 9 | |
| 403 | 7.50 | 169.25 | 56-3 | 2CZ | 58-3 | 2CZ | 9 | |
| 404 | 7.75 | 48.00 | 51-1 | 2CM | 51-1 | 2CM | 3 | |
| 405 | 7.75 | 53.50 | 52-1 | 2CM | 52-1 | 2CM | 3 | |
| 406 | 7.75 | 72.50 | 66-2 | 2CP | 66-2 | 2CP | 4 | |
| 407 | 7.75 | 96.25 | 51-2 | 2CM | 51-2 | 2CM | 5 | |
| 408 | 7.75 | 96.50 | 55-2 | 2CZ | 55-2 | 2CZ | 5 | |
| 409 | 7.75 | 96.50 | 64-2 | 2CP | 80-3 | 2CP | 5 | |
| 410 | 7.75 | 96.50 | 55-1 | 2CZ | 68-2 | 2CP | 5 | |
| 411 | 7.75 | 96.75 | 58-2 | 2CZ | 64-2 | 2CP | 5 | |
| 412 | 7.75 | 97.25 | 53-2 | 2CM | 53-2 | 2CM | 5 | |
| 413 | 7.75 | 109.50 | 59-2 | 2CZ | 65-3 | 2CP | 6 | |
| 414 | 7.75 | 118.00 | 58-3 | 2CZ | 67-4 | 2CP | 6 | |
| 415 | 7.75 | 118.75 | 54-2 | 2CM | 68-3 | 2CPR | 6 | |
| 416 | 7.75 | 120.00 | 51-2 | 2CM | 62-3 | 2CP | 6 | |
| 417 | 7.75 | 120.25 | 57-1 | 2CZ | 57-1 | 2CZ | 6 | |
| 418 | 7.75 | 120.75 | 51-3 | 2CM | 51-3 | 2CM | 6 | |
| 419 | 7.75 | 120.75 | 56-2 | 2CZ | 68-3 | 2CP | 6 | |
| 420 | 7.75 | 120.75 | 53-2 | 2CM | 75-4 | 2CPR | 6 | |
| 421 | 7.75 | 121.00 | 59-2 | 2CZ | 80-4 | 2CP | 6 | |
| 422 | 7.75 | 122.75 | 55-2 | 2CZ | 72-3 | 2CP | 6 | |
| 423 | 7.75 | 144.75 | 51-2 | 2CM | 65-3 | 2CPR | 8 | |
| 424 | 7.75 | 144.75 | 51-2 | 2CM | 62-3 | 2CPR | 8 | |
| 425 | 7.75 | 145.00 | 55-2 | 2CZ | 70-4 | 2CPR | 8 | |
| 426 | 7.75 | 145.00 | 52-3 | 2CM | 66-4 | 2CP | 8 | |
| 427 | 7.75 | 145.00 | 53-3 | 2CM | 67-4 | 2CP | 8 | |
| 428 | 7.75 | 169.25 | 52-3 | 2CM | 61-4 | 2CZ | 9 | |
| 429 | 7.75 | 169.25 | 53-3 | 2CM | 58-4 | 2CZ | 9 | |
| 430 | 7.75 | 169.50 | 59-3 | 2CZ | 59-3 | 2CZ | 9 | |
| 431 | 7.75 | 182.75 | 50-3 | 2CM | 59-4 | 2CZ | 10 | |
| 432 | 7.75 | 193.50 | 51-4 | 2CM | 51-4 | 2CM | 10 | |
| 433 | 8.00 | 72.75 | 54-2 | 2CM | 54-2 | 2CM | 4 | |
| 434 | 8.00 | 96.75 | 64-2 | 2CP | 64-2 | 2CP | 5 | |
| 435 | 8.00 | 96.75 | 53-2 | 2CM | 53-2 | 2CM | 5 | |
| 436 | 8.00 | 120.00 | 52-2 | 2CM | 75-4 | 2CP | 7 | |
| 437 | 8.00 | 120.00 | 61-2 | 2CZ | 73-3 | 2CP | 7 | |
| 438 | 8.00 | 120.50 | 54-2 | 2CM | 63-3 | 2CP | 7 | |
| 439 | 8.00 | 120.75 | 56-3 | 2CZ | 60-3 | 2CZ | 7 | |
| 440 | 8.00 | 120.75 | 58-3 | 2CZ | 71-4 | 2CPR | 7 | |
| 441 | 8.00 | 145.00 | 52-3 | 2CM | 65-4 | 2CPR | 8 | |
| 442 | 8.00 | 145.00 | 57-2 | 2CZ | 73-4 | 2CP | 8 | |
| 443 | 8.00 | 168.50 | 51-3 | 2CM | 59-4 | 2CZ | 9 | |
| 444 | 8.00 | 169.00 | 53-2 | 2CM | 60-3 | 2CZ | 9 | |
| 445 | 8.00 | 192.00 | 56-2 | 2CZ | 66-4 | 2CPR | 11 | |
| 446 | 8.00 | 193.00 | 51-3 | 2CM | 64-5 | 2CP | 11 | |
| 447 | 8.25 | 85.25 | 52-2 | 2CM | 52-2 | 2CMR | 5 | |
| 448 | 8.25 | 96.50 | 51-2 | 2CM | 66-3 | 2CP | 5 or 6 | 2A |
| 449 | 8.25 | 97.00 | 53-2 | 2CM | 62-2 | 2CP | 5 or 6 | 2A |
| 450 | 8.25 | 97.25 | 50-2 | 2CM | 70-3 | 2CPR | 5 or 6 | 2A |

(a) - Minimum grade as determined by ReGS (Realistic Grading System) is the first computer solution found that meets the minimum requirements of the grade.

(b) - Maximum NHLA. Graded by hand from a to-scale plot of the board. Contains all cuttings up to the maximum allowed for the grade. S.M. is surface measure.

(c) - "R" denotes a board from second and third saw mills.

(d) - When board surface measure is half-way between consecutive standard feet, the minimum and maximum grades are determined with the smaller surface measure. Grades in this column are determined with the larger surface measure.

Table 13.--Board information report for No. 2A Common lumber

| Board number | Measured width (inches) | Length (inches) | Minimum grade (a) % S.M. & No. of cuttings | Minimum grade (a) Grade | Maximum grade (b) % S.M. & No. of cuttings | Maximum grade (b) Grade(c) | Surface measure (feet) | Larger surf. measure grade (d) |
|---|---|---|---|---|---|---|---|---|
| 451 | 8.25 | 97.25 | 52-2 | 2CM | 66-2 | 2CPR | 5 or 6 | 2A |
| 452 | 8.25 | 120.75 | 66-3 | 2CP | 66-3 | 2CPR | 7 | |
| 453 | 8.25 | 124.25 | 63-2 | 2CP | 69-3 | 2CP | 7 | |
| 454 | 8.25 | 145.00 | 51-2 | 2CM | 65-4 | 2CPR | 8 | |
| 455 | 8.25 | 145.00 | 52-3 | 2CM | 52-3 | 2CMR | 8 | |
| 456 | 8.25 | 169.00 | 53-5 | 2CM | 53-5 | 2CMR | 10 | |
| 457 | 8.25 | 192.50 | 52-3 | 2CM | 70-5 | 2CPR | 11 | |
| 458 | 8.25 | 192.50 | 50-3 | 2CM | 69-5 | 2CPR | 11 | |
| 459 | 8.25 | 192.75 | 51-4 | 2CM | 60-5 | 2CZR | 11 | |
| 460 | 8.25 | 193.25 | 53-2 | 2CM | 61-4 | 2CZ | 11 | |
| 461 | 8.50 | 73.00 | 66-1 | 2CP | 66-1 | 2CPR | 4 | |
| 462 | 8.50 | 73.00 | 60-2 | 2CZ | 60-2 | 2CZR | 4 | |
| 463 | 8.50 | 96.75 | 59-2 | 2CZ | 66-2 | 2CP | 6 | |
| 464 | 8.50 | 96.75 | 54-1 | 2CM | 66-2 | 2CP | 6 | |
| 465 | 8.50 | 120.75 | 50-3 | 2CM | 58-3 | 2CZ | 7 | |
| 466 | 8.50 | 120.75 | 54-1 | 2CM | 74-3 | 2CPR | 7 | |
| 467 | 8.50 | 120.75 | 55-3 | 2CZ | 55-3 | 2CZR | 7 | |
| 468 | 8.50 | 144.75 | 59-3 | 2CZ | 71-4 | 2CPR | 8 or 9 | 2A |
| 469 | 8.50 | 145.00 | 52-2 | 2CM | 58-3 | 2CZ | 8 or 9 | 2A |
| 470 | 8.50 | 145.00 | 56-3 | 2CZ | 74-5 | 2CP | 8 or 9 | 2A |
| 471 | 8.50 | 168.50 | 53-3 | 2CM | 64-5 | 2CPR | 10 | |
| 472 | 8.50 | 168.75 | 56-3 | 2CZ | 69-5 | 2CPR | 10 | |
| 473 | 8.50 | 193.25 | 50-2 | 2CM | 72-4 | 2CP | 11 | |
| 474 | 8.75 | 88.50 | 64-2 | 2CP | 64-2 | 2CPR | 5 | |
| 475 | 8.75 | 96.75 | 51-1 | 2CM | 66-2 | 2CPR | 6 | |
| 476 | 8.75 | 96.75 | 52-1 | 2CM | 77-3 | 2CP | 6 | |
| 477 | 8.75 | 96.75 | 51-3 | 2CM | 64-3 | 2CPR | 6 | |
| .478 | 8.75 | 97.00 | 52-2 | 2CM | 52-2 | 2CMR | 6 | |
| 479 | 8.75 | 97.25 | 56-1 | 2CZ | 65-3 | 2CPR | 6 | |
| 480 | 8.75 | 120.50 | 58-3 | 2CZ | 58-3 | 2CZR | 7 | |
| 481 | 8.75 | 120.75 | 53-3 | 2CM | 53-3 | 2CM | 7 | |
| 482 | 8.75 | 145.25 | 53-3 | 2CM | 61-4 | 2CZ | 9 | |
| 483 | 8.75 | 148.75 | 54-4 | 2CM | 54-4 | 2CM | 9 | |
| 484 | 8.75 | 192.75 | 60-3 | 2CZ | 69-5 | 2CP | 12 | |
| 485 | 9.00 | 96.25 | 51-1 | 2CM | 66-3 | 2CP | 6 | |
| 486 | 9.00 | 96.50 | 61-2 | 2CZ | 68-3 | 2CP | 6 | |
| 487 | 9.00 | 97.00 | 50-2 | 2CM | 71-4 | 2CPR | 6 | |
| 488 | 9.00 | 120.50 | 51-3 | 2CM | 57-3 | 2CZ | 7 or 8 | 2A |
| 489 | 9.00 | 120.75 | 54-2 | 2CM | 71-3 | 2CPR | 7 or 8 | 2A |
| 490 | 9.00 | 120.75 | 61-2 | 2CZ | 68-3 | 2CPR | 7 or 8 | 2A |
| 491 | 9.00 | 169.75 | 52-3 | 2CM | 61-5 | 2CZ | 10 or 11 | 2A |
| 492 | 9.00 | 192.50 | 51-3 | 2CM | 78-6 | 2CPR | 12 | |
| 493 | 9.00 | 193.75 | 51-6 | 2CM | 51-6 | 2CM | 12 | |
| 494 | 9.25 | 51.75 | 55-1 | 2CZ | 76-2 | 2CP | 3 | |
| 495 | 9.25 | 73.00 | 51-2 | 2CM | 51-2 | 2CMR | 5 | |
| 496 | 9.25 | 96.50 | 54-2 | 2CM | 66-2 | 2CP | 6 | |
| 497 | 9.25 | 96.50 | 66-2 | 2CP | 75-3 | 2CP | 6 | |
| 498 | 9.25 | 97.25 | 56-2 | 2CZ | 61-2 | 2CZ | 6 | |
| 499 | 9.25 | 120.50 | 58-3 | 2CZ | 62-3 | 2CP | 8 | |
| 500 | 9.25 | 121.00 | 53-3 | 2CM | 64-4 | 2CP | 8 | |

(a) - Minimum grade as determined by ReGS (Realistic Grading System) is the first computer solution found that meets the minimum requirements of the grade.

(b) - Maximum NHLA. Graded by hand from a to-scale plot of the board. Contains all cuttings up to the maximum allowed for the grade. S.M. is surface measure.

(c) - “R” denotes a board from second and third saw mills.

(d) - When board surface measure is half-way between consecutive standard feet, the minimum and maximum grades are determined with the smaller surface measure. Grades in this column are determined with the larger surface measure.

Table 13.--Board information report for No. 2A Common lumber

| Board number | Measured width (inches) | Length (inches) | Minimum grade (a) % S.M. & No. of cuttings | Minimum grade (a) Grade | Maximum grade (b) % S.M. & No. of cuttings | Maximum grade (b) Grade(c) | Surface measure (feet) | Larger surf. measure grade (d) |
|---|---|---|---|---|---|---|---|---|
| 501 | 9.25 | 121.75 | 58-4 | 2CZ | 58-4 | 2CZ | 8 | |
| 502 | 9.25 | 145.00 | 56-2 | 2CZ | 56-2 | 2CZ | 9 | |
| 503 | 9.25 | 145.00 | 52-3 | 2CM | 60-4 | 2CZR | 9 | |
| 504 | 9.25 | 145.00 | 57-2 | 2CZ | 70-4 | 2CP | 9 | |
| 505 | 9.25 | 168.50 | 52-3 | 2CM | 57-5 | 2CZ | 11 | |
| 506 | 9.25 | 169.00 | 59-3 | 2CZ | 65-4 | 2CP | 11 | |
| 507 | 9.25 | 169.00 | 54-2 | 2CM | 69-4 | 2CP | 11 | |
| 508 | 9.25 | 169.25 | 52-3 | 2CM | 61-4 | 2CZ | 11 | |
| 509 | 9.25 | 169.25 | 52-2 | 2CM | 67-5 | 2CP | 11 | |
| 510 | 9.25 | 169.50 | 51-3 | 2CM | 57-4 | 2CZ | 11 | |
| 511 | 9.25 | 169.50 | 59-3 | 2CZ | 59-3 | 2CZ | 11 | |
| 512 | 9.25 | 180.75 | 54-2 | 2CM | 69-6 | 2CP | 12 | |
| 513 | 9.25 | 193.00 | 52-3 | 2CM | 71-5 | 2CP | 12 | |
| 514 | 9.25 | 193.00 | 52-4 | 2CM | 82-6 | 2CP | 12 | |
| 515 | 9.25 | 193.25 | 51-5 | 2CM | 64-6 | 2CP | 12 | |
| 516 | 9.50 | 97.25 | 51-3 | 2CM | 51-3 | 2CM | 6 | |
| 517 | 9.50 | 97.50 | 60-2 | 2CZ | 71-3 | 2CP | 6 | |
| 518 | 9.50 | 97.50 | 51-2 | 2CM | 54-2 | 2CM | 6 | |
| 519 | 9.50 | 97.75 | 58-1 | 2CZ | 58-1 | 2CZ | 6 | |
| 520 | 9.50 | 121.50 | 55-3 | 2CZ | 62-3 | 2CP | 8 | |
| 521 | 9.50 | 144.50 | 52-3 | 2CM | 72-5 | 2CP | 9 or 10 | 2A |
| 522 | 9.50 | 147.75 | 59-3 | 2CZ | 65-4 | 2CP | 9 or 10 | 2A |
| 523 | 9.50 | 169.50 | 57-3 | 2CZ | 65-4 | 2CP | 11 | |
| 524 | 9.75 | 96.50 | 56-2 | 2CZ | 62-2 | 2CP | 6 or 7 | 2A |
| 525 | 9.75 | 97.25 | 61-2 | 2CZ | 61-2 | 2CZ | 6 or 7 | 2A |
| 526 | 9.75 | 97.25 | 62-2 | 2CP | 67-4 | 2CP | 6 or 7 | 2A |
| 527 | 9.75 | 97.25 | 56-2 | 2CZ | 74-3 | 2CP | 6 or 7 | 2A |
| 528 | 9.75 | 121.00 | 55-2 | 2CZ | 74-4 | 2CPR | 8 | |
| 529 | 9.75 | 121.00 | 60-2 | 2CZ | 68-3 | 2CPR | 8 | |
| 530 | 9.75 | 121.50 | 77-3 | 2CP | 77-3 | 2CP | 8 | |
| 531 | 9.75 | 145.50 | 52-2 | 2CM | 73-4 | 2CP | 10 | |
| 532 | 10.00 | 96.25 | 50-2 | 2CM | 57-3 | 2CZ | 7 | |
| 533 | 10.00 | 96.50 | 57-1 | 2CZ | 65-3 | 2CP | 7 | |
| 534 | 10.00 | 97.00 | 55-2 | 2CZ | 55-2 | 2CZ | 7 | |
| 535 | 10.00 | 97.50 | 50-2 | 2CM | 61-3 | 2CZ | 7 | |
| 536 | 10.00 | 97.50 | 52-2 | 2CM | 70-3 | 2CP | 7 | |
| 537 | 10.00 | 97.75 | 57-3 | 2CZ | 57-3 | 2CZ | 7 | |
| 538 | 10.00 | 169.25 | 53-5 | 2CM | 53-5 | 2CM | 12 | |
| 539 | 10.25 | 72.75 | 51-1 | 2CM | 55-2 | 2CZ | 5 | |
| 540 | 10.25 | 96.50 | 52-2 | 2CM | 66-3 | 2CP | 7 | |
| 541 | 10.25 | 96.75 | 52-3 | 2CM | 62-3 | 2CP | 7 | |
| 542 | 10.25 | 96.75 | 55-2 | 2CZ | 65-3 | 2CP | 7 | |
| 543 | 10.25 | 97.00 | 53-3 | 2CM | 58-3 | 2CZR | 7 | |
| 544 | 10.25 | 97.00 | 50-3 | 2CM | 61-3 | 2CZR | 7 | |
| 545 | 10.25 | 97.25 | 52-2 | 2CM | 61-3 | 2CZ | 7 | |
| 546 | 10.25 | 97.50 | 56-2 | 2CZ | 70-3 | 2CP | 7 | |
| 547 | 10.25 | 120.75 | 55-2 | 2CZ | 59-3 | 2CZ | 9 | |
| 548 | 10.25 | 121.50 | 57-2 | 2CZ | 64-3 | 2CP | 9 | |
| 549 | 10.25 | 193.50 | 51-4 | 2CM | 69-7 | 2CP | 14 | |
| 550 | 10.25 | 193.50 | 51-4 | 2CM | 67-5 | 2CP | 14 | |

(a) - Minimum grade as determined by ReGS (Realistic Grading System) is the first computer solution found that meets the minimum requirements of the grade.

(b) - Maximum NHLA. Graded by hand from a to-scale plot of the board. Contains all cuttings up to the maximum allowed for the grade. S.M. is surface measure.

(c) - "R" denotes a board from second and third saw mills.

(d) - When board surface measure is half-way between consecutive standard feet, the minimum and maximum grades are determined with the smaller surface measure. Grades in this column are determined with the larger surface measure.

Table 13.--Board information report for No. 2A Common lumber

| Board number | Measured width (inches) | Length (inches) | Minimum grade (a) % S.M. & No. of cuttings | Grade | Maximum grade (b) % S.M. & No. of cuttings | Grade(c) | Surface measure (feet) | Larger surf. measure grade (d) |
|---|---|---|---|---|---|---|---|---|
| 551 | 10.50 | 73.00 | 55-2 | 2CZ | 55-2 | 2CZR | 5 | |
| 552 | 10.50 | 96.25 | 56-2 | 2CZ | 56-2 | 2CZ | 7 | |
| 553 | 10.50 | 97.00 | 59-2 | 2CZ | 74-3 | 2CPR | 7 | |
| 554 | 10.50 | 145.50 | 53-3 | 2CM | 56-4 | 2CZ | 10 or 11 | 2A |
| 555 | 10.75 | 96.75 | 52-2 | 2CM | 72-4 | 2CP | 7 | |
| 556 | 10.75 | 97.00 | 52-2 | 2CM | 61-3 | 2CZ | 7 | |
| 557 | 10.75 | 97.00 | 61-2 | 2CZ | 68-3 | 2CP | 7 | |
| 558 | 10.75 | 168.75 | 53-3 | 2CM | 67-6 | 2CPR | 13 | |
| 559 | 10.75 | 169.50 | 62-4 | 2CP | 62-4 | 2CP | 13 | |
| 560 | 11.00 | 91.75 | 53-2 | 2CM | 79-4 | 2CPR | 6 | |
| 561 | 11.00 | 121.50 | 50-2 | 2CM | 60-4 | 2CZ | 9 | |
| 562 | 11.00 | 144.75 | 51-3 | 2CM | 66-5 | 2CP | 11 | |
| 563 | 11.00 | 169.25 | 61-6 | 2CZ | 61-6 | 2CZ | 13 | |
| 564 | 11.00 | 169.50 | 50-5 | 2CM | 59-6 | 2CZ | 13 | |
| 565 | 11.00 | 169.50 | 61-3 | 2CZ | 77-6 | 2CP | 13 | |
| 566 | 11.25 | 145.00 | 56-3 | 2CZ | 76-5 | 2CP | 11 | |
| 567 | 11.50 | 96.75 | 57-3 | 2CZ | 57-3 | 2CZ | 8 | |
| 568 | 11.50 | 97.50 | 53-2 | 2CM | 53-2 | 2CM | 8 | |
| 569 | 11.50 | 144.75 | 53-3 | 2CM | 65-4 | 2CPR | 11 or 12 | 2A |
| 570 | 11.50 | 169.50 | 54-3 | 2CM | 63-5 | 2CP | 13 | |
| 571 | 11.75 | 97.50 | 59-2 | 2CZ | 66-3 | 2CP | 8 | |
| 572 | 11.75 | 145.25 | 50-3 | 2CM | 73-5 | 2CP | 12 | |
| 573 | 11.75 | 145.25 | 52-3 | 2CM | 59-4 | 2CZ | 12 | |
| 574 | 12.00 | 97.50 | 55-2 | 2CZ | 55-2 | 2CZ | 8 | |
| 575 | 12.25 | 96.50 | 51-2 | 2CM | 68-4 | 2CP | 8 | |
| 576 | 12.25 | 193.00 | 53-3 | 2CM | 62-5 | 2CP | 16 | |
| 577 | 12.50 | 48.50 | 63-1 | 2CP | 63-1 | 2CP | 4 | |
| 578 | 12.75 | 97.50 | 52-2 | 2CM | 58-3 | 2CZ | 8 or 9 | 2A |
| 579 | 12.75 | 145.25 | 57-3 | 2CZ | 71-6 | 2CP | 13 | |
| 580 | 12.75 | 169.50 | 53-3 | 2CM | 69-6 | 2CP | 15 | |

(a) - Minimum grade as determined by ReGS (Realistic Grading System) is the first computer solution found that meets the minimum requirements of the grade.

(b) - Maximum NHLA. Graded by hand from a to-scale plot of the board. Contains all cuttings up to the maximum allowed for the grade. S.M. is surface measure.

(c) - “R” denotes a board from second and third sawmills.

(d) - When board surface measure is half-way between consecutive standard feet, the minimum and maximum grades are determined with the smaller surface measure. Grades in this column are determined with the larger surface measure.

Gatchell, Charles J.; Wiedenbeck, Janice K.; Walker, Elizabeth S. 1992. **1992 data bank for red oak lumber.** Res. Pap. NE-669. Radnor, PA: U.S. Department of Agriculture, Forest Service, Northeastern Forest Experiment Station. 47 p.

Written for researchers and industrial decision makers who may have only a limited knowledge of the National Hardwood Lumber Association grades, the data bank contains a limited description of factors affecting the grades. Included are a description of ReGS, the computer program for grading lumber; some reasons why lumber users who buy kiln-dried lumber may want to specify the Special Kiln Dried Rule; the effect of kiln drying on soundness of knots; and the surprising finding that relatively few No. 1 Common and No. 2A Common boards contain any pith at all, The data bank contains a total of 1,578 fully described boards in FAS, Selects, No. 1 Common, and No. 2A Common grades.

**Keywords:** ReGS, HaLT2, lumber processing, board quality, lumber data bank, lumber grades

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